IDAHO NATIONAL ENGINEERING ENVIRONMENTAL LABORATORY PUBLIC MEETING

Test Area North Comprehensive Remedial

Investigation/Feasibility Study Proposed Plan

FINAL AS OF NOVEMBER 18, 1999

February 23, 1998 Idaho Falls, Idaho 7:00 p.m.

Nancy Schwartz Reporting 2421 Anderson Street Boise, Idaho 83702 (208) 345-2773

```
Page 3
 1
                  IDAHO NATIONAL ENGINEERING
                                                                  1 the agencies have extended the public comment
 2
         ENVIRONMENTAL LABORATORY PUBLIC MEETING
                                                                  2 period on those proposed plans until March 12th, so
                                                                  3 we have roughly two and a half weeks to go.
                                                                              The agencies plan to sign Records of
 5
                                                                  5 Decision for those two projects sometime this
 6
          Test Area North Comprehensive Remedial
                                                                  6 summer and any remediation activities will probably
 7
      Investigation/Feasibility Study Proposed Plan
                                                                  7 begin in the fall or in the spring of next year.
                                                                             The purpose of tonight's meeting is,
 9
               FINAL AS OF MOVEMBER 18, 1999
                                                                 9 basically, three-fold. First, we're here to
10
                                                                 10 present the results of the Comprehensive
11
                                                                 11 Remediation Investigation/Feasibility Study for
12
                                                                 12 Test Area North. Second, the agencies and project
13
                                                                 13 managers associated with this investigation are
14
                                                                14 here, and we're encouraging people to ask questions
15
                                                                15 about the investigation and the proposed plan.
16
                                                                16 Third, we're here to get your comments on the
                   February 23, 1998
Idaho Falls, Idaho
7:00 p.m.
17
                                                                17 proposed plan. Your oral comments, and also you
18
                                                                18 can submit written comments. The proposed plan has
                                                                19 a postage-paid sheet on the back, and you can just
                                                                20 write your comments and fold it and place it in the
21
                                                                21 mail, and we'll get that.
22
                                                                22
                                                                             Your comments will be responded to
23
                                                                23 in the Responsiveness Summary section of the Record
24
               Mancy Schwartz Reporting
                                                                24 of Decision, and the Record of Decision is
                 2421 Anderson St
                  Boise, Idaho 83702
25
                                                                25 scheduled to be signed sometime this fall.
                                                        Page 2
                                                                                                                        Page 4
 1
```

7

16

IDAHO FALLS, IDAHO, MONDAY, FEBRUARY 23, 1998

2 3

MR. SIMPSON: I'm Erik Simpson. I'm the 4 community relations plan coordinator for the INEEL,

5 environmental restoration program. And I'll be 6 facilitating the meeting tonight. We're here to

7 talk about the Test Area North Comprehensive

8 Remedial Investigation/Feasibility Study. You will

9 see from the presentation that Test Area North is a

10 true Cold War Facility. This is the fourth

11 Comprehensive Remedial Investigation/Feasibility

12 Study that we completed under the Federal Facility

13 Agreement and Consent Order, which is our legally

14 binding clean-up agreement between the

15 Department of Energy, Environmental Protection

16 Agency and state of Idaho. I should mention that

17 we have five more comprehensive investigations

18 under way at this time, and we will be releasing

19 proposed plans on those over the course of the next

20 five years.

21 The last time that we had a public 22 meeting in Idaho Falls was just about a month

23 ago, actually, when we were discussing the

24 Naval Reactors Facility and Argonne National

25 Laboratory-West Comprehensive Investigation. And

We have a court reporter here tonight and we will be recording all portions of

3 this meeting. And I will talk a little bit more

4 about that later. We will be using a microphone

5 tonight, too, to try to make amends with our court

6 reporter from the last time that we were here.

I would like to direct your

8 attention to the resource table at the back of the

9 room. We have fact sheets on Test Area North and

some other facilities. We have Citizens' Guides.

We have the Proposed Plan for Test Area North and

12 also for Naval Reactors Facility and Argonne

13 National Laboratory-West. We have the Community

14 Relations Plan and the Federal Facility Agreement

15 and Consent Order.

I would like to take a second to

17 review the agenda. Shortly, I will introduce

18 everyone who is associated with the Test Area North

19 comprehensive investigation, then the state and EPA

20 representatives will say a few statements - or

21 make a few statements, and then we will hear the

22 presentations on the comprehensive proposed plan.

23 Following that, we will have a question and answer

24 session where you can ask questions of the project

25 managers and agency representatives. I should

Page 8

Page 5 1 mention, also, if, during the presentation 2 something isn't clear to you, feel free to 3 interrupt the speaker and just ask the question. 4 Then after the question and answer session, we will 5 have the comment session where your comments are 6 entered into the record. On the back of the agenda is an 8 evaluation form. I'm encouraging you to give us 9 your impressions of this meeting tonight, and we 10 will be using this -- your comments to shape any 11 future public meetings. Also we have an attendance 12 sheet in the back and please sign in, if you 13 haven't already. And we will use that to send 14 copies of the Record of Decision too. 15 With that, I would like to introduce 16 everyone here who is here who is associated with 17 the project. Mark Shaw is the Waste Area Group 1 18 manager. Waste Area Group 1 also refers to the 19 Test Area North. He is the Waste Air Group 1 20 manager for the Department of Energy; and he's been 21 involved in the investigation for roughly a year 22 and a half --23 MR. SHAW: A couple years.

MR. WILKENING: Matt Wilkening with 2 EPA out of Seattle. I have been working on the 3 Test Area North since about 1995. I have been 4 working with this particular project since its 5 inception, and we found working cooperatively with 6 the other two agencies, we have reached what we 7 think to would be a fairly good solution to the 8 contamination out there. But as Clyde mentioned, 9 we are accepting public comment at this time to 10 make sure that the public also accepts or buys into 11 our decisions on this. 12 MR. SIMPSON: Thanks, you guys. 13 Now, I would like to turn it over to Mark Shaw. 14 Once again, he's the Department of Energy Waste 15 Area Group 1 manager. And Mark will give a brief 16 outline of the investigation and history of the Test Area North. 18 MR. SHAW: Like Erik said, Test Area 19 North got started back in the Cold War days. Back 20 in 1954 when President Eisenhower heard a rumor 21 that the Russians were building a nuclear powered 22 airplane. Like every good president, he thought if 23 they had one, we better have one too. So we 24 started the Aircraft Nuclear Propulsion Program and 25 it started it out in the Arco Desert. I don't know

Page 6

1 Company. He was instrumental in conducting the 2 risk assessment for the comprehensive 3 investigation. And also Dave Michael is with 4 Lockheed Martin Technology Company. He is the 5 project manager on the Test Area North 6 comprehensive investigation. Also in the audience 7 we have Tim Green, who is the Lockheed Waste Area Group 1 manager, basically Dave's boss. I would like to introduce Clyde 10 Cody. Clyde is with the State of Idaho Department 11 of Health and Welfare Division of Environmental 12 Quality. And Matt Wilkening, Matt is with the 13 Environmental Protection Agency Region 10 office 14 in Seattle, and they were also involved in this 15 investigation, and they are both going to make some

MR. SIMPSON: A couple years. Doug

25 Burns, he's with Lockheed Martin Idaho Technology

16 statements. 17 MR. CODY: We, as the state feels 18 this is a good plan, and we have worked closely 19 with the DOE and EPA on this, but probably most 20 importantly is that we feel that this is the time 21 for public input, and we will be looking forward to 22 whatever we hear, as far as your ideas on the 23 preferred alternatives to see what the public 24 thinks of this. So it isn't written in stone yet, 25 so we will look forward to your comments.

1 if you can see these, I hope so. If not, you can 2 come up and have a look afterwards, but as part of 3 that Aircraft Nuclear Propulsion Program -- this is 4 actually the hanger they built for the airplane. 5 They never actually built the plane, but they have 6 a nice garage for it. This is the former IET

7 facility, Initial Engine Test Facility where they

8 actually test part of the engines.

After that program wound down in 10 about '61, the emphasis really shifted to reactor 11 research. They built a Water Reactor Research 12 Test Facility where they tested pool and 13 table-type reactors. Right next to the hanger is 14 the LOFT facility, Loss of Fluid Test, where they 15 looked at the effects the cool water losses on 16 reactor cores. They do the experiments and they 17 bring the cores down to the TAN Hot Shops and take 18 a look at them.

19 We all remember the Three-mile 20 Island accident back in Pennsylvania. The fuel for 21 that was brought out here to the Hot Shop, and it's 22 stored out here still. Probably the most 23 interesting project going on out there now is in 24 the old hanger. Actually, they built a building 25 inside the hanger where they built tank armor for

24

15 sites were addressed there.

Page 11

Page 12

Page 9

1 the M1A1 tank,

While that activity is going on over
the years -- and as we know, waste management
practices back in the '50s and '60s were certainly
not of today's standards and ended up with releases
to the environment. When we started this
nivestigation two and a half or three years ago, we
went through every facility at TAN, all the active
facilities, all the NF activity facilities, the
abandoned facilities, looking for potential release
sites. And we identified 94 of those. Thirty-one
of those were addressed in the OU 1-07B Record of
Decision. OU 1-07B, this is the operable unit for
the TAN groundwater project. Thirty-one of those

Of the remaining sites, eight have
an unacceptable risk for human health, two have an
unacceptable ecological risk, and the remaining
by 53 were recommended for No Further Action.

What we're really here to talk about
tonight are the eight sites with an unacceptable
risk to human health. The two ecological sites are
going to be addressed in more detail and
site-wide ecological risk assessment. When you do
an eco risk assessment, you look at the impact that

ge 9

1 when they were moving one of those airplane

2 engines, they managed to spill from 800 to 1,0003 gallons of mercury on the railroad tracks. They

4 cleaned most of it up right after it happened.

5 Some contamination was left, went back and did a

6 removal action a few years ago where they actually

7 took the tracks out, dug down about four feet, but

8 there is still some residual mercury remaining.

9 And this is the diesel site. Diesel

10 spill site. There is a tank here and a tank over

11 here and about 100 feet of pipe connecting them.

12 The pipe between the two tanks leaked, the tank and 13 the pipes were removed, but there still is some

14 residual diesel contamination left.

This picture shows both of the rad soil sites, the first of which sits in this

17 triangular area over here. It's called Area B, 18 soil contamination south of the turntable. The

19 turntable is just off the screen over. This area

20 was actually contaminated from the area from over

21 here, which I will talk about in a minute. That is

22 the PM-2A tank area. The tanks, there was a spill

23 when they were transferring the contents of these

24 tanks on the tanker truck, which contaminated some

25 of the soil in this area. As we all know, the wind

Page 10

1 your site has on the entire population of

2 receptors. On two eco sites, they are too small to

3 have an effect on a population level, so we're

4 going to look at the cumulative effects when

5 combined with the other sites.

What I would like to do is take you through the eight sites that have unacceptable human health risk and kind of go on a little tour here. The eight sites have been grouped into three categories. The first being non-rad contaminated soils. We also have rad contaminated soils, and then there are two tank sites. This is the first of the non-rad soil sites that Dave will be talking

14 about later.
15 This is one of the burn pits, and
16 this one is a little more exciting picture. Back
17 when they were be building TAN, they would take
18 things like construction debris, waste, paint,
19 solvents like turpentine, that kind of stuff and
20 they would take them out to the burn pits, put the
21 stuff in and at the end of the day they would just
22 burn it. There is lead in the burn pits, which is
23 the contaminant that we're concerned with there.
24 The other non-rad soil site is a
25 mercury spill site. Back in -- I think it was 1958

1 only blows in one direction in Idaho, straight

2 across this way, and actually, it blew

3 contamination over into this area.

Removal action was done, but there

5 is still five small areas over across the road with

6 cesium-137. The other rad soil site is this whole 7 area in the bottom, which is the TSF-07 pond, which

8 actually extends down. It's about a 35-acre pond.

9 Five acres, which in this corner here, are

10 contaminated with cesium-137 and, possibly,

11 radium-226.

And the tank sites, these are the

13 V-Tanks. These are the main way leading down to

14 the three tanks, V-1, 2 and 3. V-9 just sits off

15 the photo here. These are 10,000-gallon stainless

16 steel tanks. V-9 is about a 400-gallon tank.

17 These have a really interesting cocktail of waste:

18 listed hazardous, rad, PCBs, metals, all kinds of

19 stuff. These were overfilled at one time, so there

was some soil contamination in the area.
 And the other tank sites, let's go

22 to this one. These are the PM-2A tanks. This is 23 the one where there was a spill when they were

24 transferring the contents to a tanker truck and

25 this is the stuff that blew across the road into

Page 16

1 the other soil contamination site.

These are two 50,000-gallon carbon 3 steel tanks. They were pumped within about an inch

4 of the bottom, and they blew some diatomaceous

5 earth to soak up the remaining liquid. As far as

6 we know, none of these tanks have ever leaked, but

7 there is soil contamination around the top from

8 over-filling and from spills.

I hope that gives you kind of a 10 picture of what we're going to be talking about.

11 Next, we will have Doug come up and go through

12 where we're at in the process and talk some more

13 about risk assessments.

MR. BURNS: Okay. As Mark said, as 14 15 a result of the investigations at WAG 1, we 16 identified 94 potential release sites at Test Area 17 North. And here is kind of an overview of the

18 assessment process that we followed for these

19 94 release sites.

First of all, we started out with 20 21 preliminary investigations. We called these

22 preliminary investigations Track 1 and Track 2

23 risk assessments or investigation of these 94

24 release sites. These preliminary investigations

25 lead into a No Further Action determinations for

1 some sites and also for action determinations.

2 Specifically, we did four removal actions. There

3 was a bottle site. There was a mercury spill site

4 that Mark mentioned, where we cleaned up some of

5 mercury. There was one Interim Action and the

6 groundwater contamination, the OU 1-07B groundwater

7 contamination that Mark mentioned. The groundwater

8 contamination was produced by injection wells at

9 TAN, at Test Area North. And this injection well,

10 back in the 1950s, '60s and '70s waste was injected

11 down into the aquifer through this injection well.

The first removal action that was

13 conducted at the INEEL was conducted back in 1989,

14 and it consisted of pulling contaminated sludge out

15 of this injection well. Well, there is also a

16 groundwater plume now moving down gradient from

17 this injection well. The OU 1-07B remedial is

18 ongoing right now.

12

19 And this investigation that we're 20 here to talk about tonight kind of builds on the

21 OU 1-07B groundwater investigations. Specifically,

22 for this comprehensive remedial investigation, we

23 assume that all of the remedial actions that had

24 been identified in the OU 1-07B Record of Decision

25 will be successful.

Page 13

This investigation of the OU 1-10

2 investigations then adds -- it assesses risks that

3 are on top of the risk that would be produced by

4 the residual contamination OU 1-07B.

So moving on, all these Action and

6 No Further Action determinations fed into the

7 Comprehensive Remedial Investigation/Feasibility

8 Study. Here is a copy of that document. It's a

9 big document. The proposed plan summarizes all the

10 information in that RI/FS.

So the proposed plan feeds into the 11

12 decision phase. We will take comments from the

13 public, from state regulators, and from all those

14 comments, we will produce a Record of Decision for

15 OU 1-10. That Record of Decision will then feed

16 into a remedial design, remedial action phase

17 monitoring for some sites and maybe No Action

18 determinations for other sites.

19 The next six slides are going to

20 summarize the risk assessments that we performed

21 for this Remedial Investigation/Feasibility Study.

22 As Mark mentioned, the risk assessment has two

23 parts, a human health evaluation and an ecological

24 evaluation. We're here to talk, principally, about

25 the human health evaluation since the ecological

Page 14

1 risk assessment will be carried forward into the

2 site-wide ecological risk assessment under WAG 10.

Our human health investigation had

4 two different parts to it. First was an

5 occupational scenario, where we evaluated risk to a

6 current worker and risk to a worker who might work

7 at one of our contaminated sites 100 years in the

8 future.

The second portion of the risk

10 assessment dealt with a hypothetical residential

11 scenario where we assessed risks to a resident who

12 might move to one of our contaminated sites in

13 100 years.

14 Hopefully, can you see this slide.

15 This is a slide that depicts the exposure pathways

16 that we evaluated in our risk assessment.

17 Basically, exposure pathways is a means by which

18 contamination can move from the environment into a

19 human's body. For instance, a person might inhale

20 contaminated dust or ingest contaminated soil. So

21 all of these exposure pathways that are shown on

22 this diagram, we evaluated risks associated with

23 all those pathways. So for each pathway we came up

24 with a risk number at each one of our individual

25 contaminated sites.

Page 17

As a result of that exposure 2 assessment, we identified this list of contaminants 3 of concern. So these are the contaminants that we 4 think our assessment predicts having a potential 5 for reducing unacceptable risks at WAG 1. First of 6 all, we have a couple radionuclides, cesium-137, 7 radium-226. They show up at the TAN disposal pond 8 and the tank sites. Next, we have several metals,

10 including mercury, lead, manganese and arsenic. 11 Mercury, of course, is at the mercury spill site. 12 Lead shows up at the burn pits. Manganese and 13 arsenic show up at the disposal pond. Then we have 14 diesel contamination, specifically at the diesel 15 spill site. Organic chemicals, these are 16 principally correlated to solvents, and they are in 17 the tank sites along with polychlorinated biphenyls 18 or PCBs show up at the tank sites.

20 results of the risk assessment. First of all, this 21 slide deals with the results of the occupational 22 scenario of our risk assessment. Along this access 23 here shows risk numbers. Now, risk is, basically, 24 a probability of a person developing cancer 25 sometime during his or her lifetime as a result of

The next three slides summarize the

I will happen, but we calculate the risk that way to

2 be conservative. Also, I have to mention, in three

3 4 sites, the two burn pits and the diesel fuel sites, 5 all of the contaminants at those sites do not have 6 toxicity data, so all of those contaminants we had 7 to assess whether the contamination was acceptable 8 or not by basing our assessment in comparison to

9 other levels besides the risk level. For example, 10 we have a regulatory limit of 400 parts per million

11 for lead for residential. It's a residential 12 standard, so we compared our detected lead 13 concentrations against that standard.

14 The next slide deals with the 15 residential exposure scenario. The graph is very 16 similar to the occupational scenario. Under the 17 residential scenario, we had several more sites 18 that show unacceptable risk. We had the V-Tank 19 site, again, the PM-2A tank, the disposal pond, the 20 soil contamination area, and the mercury spill site 21 also showed unacceptable risk levels. 22

The final summary slide for the risk 23 assessment shows the results of the noncarcinogenic 24 health assessment. The first two slides dealt with 25 cancer risk. This slide shows noncancer risk.

Page 18

Page 20

1 exposure to a contaminated site.

19

Now, let's imagine we had a site 2 3 where a worker at the site had one chance in 10 of 4 developing cancer as a result of working at the 5 site. The risk for that site would show up right 6 here at the one-in-ten level. So this graph is 7 showing that our calculated risk, our worst 8 calculated risk in Test Area North falls in here at 9 the one in 1,000 level.

Now, EPA has identified an 10 11 acceptable risk level, right here at the one in 12 10,000 level. So, basically, if there is one chance 13 in 10,000 of developing cancer, that is an unaccept 14 risk. So as can you see from this graph, we have 15 several sites that fall above that level, including 16 the PM-2A tanks, the V-tank sites, the soil 17 contamination area and the disposal pond. And the 18 mercury spill site, as can you see, falls down in 19 the acceptable risk range for the the occupational

20 scenario. Now, all of these risks are 21 22 calculated assuming that DOE does nothing at the 23 site. That is our base-case assumption. We assume 24 that we calculate these risks assuming that DOE 25 were to walk away. Of course, that is not what

1 Okay. So, basically, what this slide is showing is

2 that EPA has done lots of experiments on lots of 3 different contaminants, and they found for

4 noncancer health effects, for most contaminants.

5 there is a level of intake, a level of exposure

6 that will not cause any health impacts. So, we, as 7 part of this risk assessment, compared our exposure

8 at our contaminated sites against this acceptable

9 level that the EPA has determined for each

10 contaminant.

11 A contaminant where we have a site 12 where there are exposures equal to that acceptable 13 level would fall right here at this hazard

14 quotient, equal to one spot. So any site that has

15 a hazard quotient greater than one is

16 unacceptable. The mercury spill site, the disposal

17 pond, this soil contamination area, the V-Tanks and

18 PM-2A tanks all fall at or above the average

19 quotient equal to one level.

20 Okay. So that summarized the risk 21 assessment. Now we're going to present some 22 information about our remedial action objectives

23 and our proposed remedial activities. Dave Michael

24 will present that.

25 MR. MICHAEL: So far what we have

1 talked about tonight, we have talked about the

2 history of TAN, Test Area North, and Doug had just

3 presented our presentation about the risk

4 associated with the sites up there.

What I want to talk about is the remedial action alternatives that we have looked at and also to present to you what our preferred alternatives are. When we started looking at alternatives, the first thing that we had to do was to develop remedial action objectives. Now, remedial action objective are those goals that would be required to be met if we were to pick a certain alternative for the remedy. We have it divided up, and we talked about it so far tonight, into several different areas.

The first area that we are going to
look at is the soil pathways. These are the sites
that have soil contamination. The first one that
we look at are the radiological contaminated sites,
soil sites. And our objective is that anything
that we would do to those sites, we would reduce
the risk, any risk with that site, for both cesium
and radium, to one in 10,000. For the site that
has lead contamination at the site -- and that was
the burn pits, whatever we would choose would have

Page 23

1 would ever have a risk greater than one in 10,000.

2 Also if we were to ever clean these up during the

3 operation, we want to make sure there is no hazard

4 quotient greater than one. And also during

5 decontamination activities at these sites, say when

6 they go to tear some of these sites down, we want

7 to make sure there is no release to the environment

8 that are associated with that decontamination.

9 When we started looking at different

10 alternatives, we had to have something that we

11 could compare each alternative to. And that is,

12 when we came up with an evaluation criteria -- and

13 after this evaluation criteria is specified by law,

14 that we have to look at them this way, the first

15 two criteria that we would look at are something

16 that we call threshold criteria. Threshold

17 criteria are those criteria that absolutely have to

18 be met. Those two are to protect the human health

19 and the environment, whatever remedy that we were

20 to pick; and the second, any remedy that we would 21 pick would have to comply with all laws for both

22 state and federal recall.

The next group of criteria that we

24 looked at is something what we call balancing

25 criteria. Balancing criteria is, we would take and

Page 22

1 to prevent any direct exposure to the lead.

Then the last one would be the

3 mercury spill site. We would have to have an

4 alternative that would have a hazard quotient of

5 less than one for the mercury site.

The other sites that we looked at
was the V-Tanks, and whatever we do to the V-Tanks,
we've had no indication that the V-Tanks have ever
leaked, but whatever remedy we would pick to
address the tanks, we would have to make sure that
we have no release of the tank contents to the tank

Then the last one I'm just going to
briefly talk about is the co-located facilities.
Co-located facilities are those sites that are next
to or near one of our 94 sites. And these are
sites that we have not addressed -- we have looked
at, but we've made sure that they are not one of
our sites, but we want to make sure in the future
that they don't have any releases to the
environment and that nothing happens from them.

And when we started looking at co-located facilities, there are different times that those would take place. We want to make sure that none of the sites that are near our sites Page 24
1 judge each remedy on a certain scale on how well

2 this criteria was met. Then we would compare each

3 one of those remedies with the different criteria.

4 In other words, say you may have something that

5 provides a long-term effective process, but that

6 it does very little, it's not really easy to

7 implement. Something else may be a lot easier to

8 implement, but maybe it costs a lot more than one

9 of these other alternatives. So we compare these

10 different remedies per these criteria.

11 The last group that we looked at is

12 the modifying criteria. And modifying criteria is, 13 first of all, we have to have the state acceptance

14 in whatever we do. The last one is we have to have

15 the public's acceptance, or your acceptance, in

is the phone of acceptance, or your acceptance, in

16 whatever we do. That is why we're here tonight.

17 The first group of sites that I want

18 to talk about are the soil contaminated sites. If

19 you remember, we talked about both radiological

20 contaminated sites and nonradiological contaminated

21 sites. When we were looking at these sites, we

22 looked at different types of remedies. One of the

23 remedies that we looked at was no action. What if

24 we were to just walk away and that would not have

25 met any of the threshold criteria, those first two

12 environment.

Page 28

Page 25

1 that we looked at, so it would immediately drop.

- The second criteria that we looked
- 3 at was something that we call limited action.
- 4 Limited action is a remedy that, what we would do
- 5 is control access to the contamination. This would
- 6 be accomplished through various means, primarily
- 7 like a perimeter fence. We have appropriate signs
- 8 that warn you that there is contamination in the
- 9 area, not only fence and signs, but we also control
- 10 any water from flowing over the area. We would
- 11 also, if required, would put a permanent marker in
- 12 place, a permanent concrete marker that would warn
- 13 you about the contamination. It may even result in
- 14 having deed restrictions to the site so that if the
- 15 Department of Energy quit controlling the area and
- 16 it went back to Bureau of Land Management or
- 17 something, there would be documentation saying, to
- 18 prevent anybody from building there.
- 19 Another area that we've we looked at
- 20 is containment. Containment could be anywhere from
- 21 an engineered barrier. It could be a cap. In
- 22 other words, we're going to contain the
- 23 contamination and prevent access. Another remedy
- 24 that we looked at for soil contaminated sites is
- 25 the excavation and disposal. In other words, we

Page 26

1 would go in and actually dig up the contaminated 2 soil and dispose of it.

- 3 Then the last one, we may remove it,
- 4 and then just treat it. What I would like to now
- 5 do is, for those soil contaminated sites, is to
- 6 present to you the preferred alternatives. The
- 7 first group that we will look at is the
- 8 nonradiological contaminated sites. These are
- 9 sites that have no radiation contamination. And
- 10 our first one that we would look at is the water
- 11 reactor research test facility burn pit. This was
- 12 the burn pit that we saw that had the van in the
- 13 middle of the picture. This was for the
- 14 construction debris that was burned each day.
- 15 Our preferred alternative after
- 16 looking at all the different remedies would be
- 17 limited action. Again, this would be to create, to
- 18 erect signs, perimeter fencing, to prevent any
- 19 water from ever flowing over it, standing on top of
- 20 it. We would also monitor it. Every year, every
- 21 five years, we would and look and see if this
- 22 remedy was working. So limited action is what our
- 23 preferred alternative for that site is.
- 24 The second one is, again, the other
- 25 burn pit at the TAN support facility, and that

1 preferred alternative is also limited action. For

- 2 the site that you saw with the railroad tracks, the
- 3 mercury spill site, our preferred alternative for
- 4 that site is to actually go in, excavate the
- 5 contaminated mercury site, the mercury soils and
- 6 dispose of them off site. When I say "off site," I
- 7 mean off the INEEL.
- The last site that we have that was
- 9 noncontaminated was a diesel spill site. This was
- 10 over the water reactor research test facility
- 11 between the two buildings. That is actually inside
- 12 a facility that has a perimeter fence all the way
- 13 around it already. The spill area that is there
- 14 now is actually below a parking lot and roadway.
- 15 So our preferred alternative for that site would
- 16 also be limited action.
- The other two sites that had soil 17
- 18 contamination, and these are the two sites that had
- 19 low-level radiological nuclide contamination, the
- 20 first one is the soil that was south of the table
- 21 right along the road there at Test Area North. Our
- 22 preferred alternative for that site would be to go
- 23 and excavate and dig up and remove the soils and
- 24 dispose of those soils on the INEEL at an
- 25 acceptable facility.

The last one that we will talk about

- 2 for the soil contamination is the disposal pond,
- 3 and if you remember that picture on the bottom,
- 4 it's the 35-acre pond. It has five acres of
- 5 contamination. That site is contaminated with
- 6 cesium, and as Doug said, possibly radium. We have
- 7 done sampling there before. We have had
- 8 indications that there was radium on the site. We
- 9 had indications that we may have radium at the
- 10 site. But through further evaluation, it appears
- 11 that the radium that is there is natural
- 12 occurring. So what we plan on doing -- our
- 13 recommendation right now is limited action. We
- 14 will, in the future, be required to go out and
- 15 perform additional sampling of the site. We want
- 16 to verify that the radium there is actually natural
- 17 occurring. Now, if we were to discover that the
- 18 radium there is not natural occurring, but
- 19 contamination from activities of the Test Area
- 20 North, then, what we would do then is to excavate 21 and remove.
- 22 We put the cost of these remediation
- 23 activities on the board here. This one is 1.6
- 24 million, if we were to just control it with a
- 25 limited action. If we actually had to go in and

1 dig up that soil and dispose of it on the INEEL, 2 that cost could go up \$20 million. But all the 3 sampling that we have done so far indicates that 4 the radium at the pond is naturally occurring, so 5 we will verify that. The other group of sites that we

7 will talk about are the tanks, underground storage

8 tanks. The first one being the V-Tanks, and then

9 the second, the PM-2A tanks. The different

10 response actions that we've looked at are very 11 similar for both tanks. And we have five listed 12 here, but as you see, if you read through these, 13 there were different variations of these remedies. 14 We actually end up -- when we looked 15 at the V-Tanks, we looked at 10 different 16 variations of these remedies and for the PM-2A 17 tanks, we looked at nine. Again, as you can see, 18 our first one that we looked at was no action. It 19 did not meet any of the threshold criteria, so we 20 immediately dropped it.

We looked at limited action. We 21 22 discussed limited action quite a bit tonight. We 23 talked about soil excavation, removing the tanks 24 and then treating the contents either on site or 25 off site and disposing of the soils either on site

Page 29

1 electrodes, an array of these electrodes around the 2 contamination and whenever a high current is passed

3 through these electrodes, heat is created and

4 essentially melts the soils, the tank, the tank

5 contents. It would melt it, and whenever it cools,

6 it actually is a glassified object.

So we looked at all these different 8 alternatives, and we came up with our preferred 9 alternatives. The first one being for the V-Tanks, 10 with the V-Tanks we're recommending in situ vitrify 11 these tanks from the process I just explained.

12 This will take care of both the tank contents, the

13 tanks and the soil around the tanks. This

14 treatment -- or this type of remedy, we're also

15 performing a treatability study.

16 In situ vitrification has been 17 around for quite a while. We had done some testing

18 at the site in the years past, but this type of

19 technology that we're talking about is a different

20 arrangement of the electrodes. It's a different

21 technology in the aspect of the way it heats. The

22 old method used to heat from the top down, which

23 caused some problems in the past when working with

24 tanks. This technology has been developed now that

25 the melt actually comes in from each side so that

Page 30

Page 32 1 some of the horror stories that you may have heard

2 of tanks would not apply here. So we're doing a

3 treatability study to test this technology,

4 actually melting a tank and its contents to make

5 sure that it works. So this is our preferred

6 alternative. If this treatability study would show

7 us that this technology is not appropriate for our

8 V-Tanks, then our fall back position would be with

9 the grouting of the tanks.

The last one that we looked at was 10 11 the PM-2A tanks and its contents in the

12 contaminated soil. What we would do is remove the

13 soil around the tanks, dispose of them on site, and 14 when we say in situ treatment of the tank contents,

15 if you remember when Mark was talking about these

16 tanks, these tanks, when they were put out of

17 commission, was actually pumped dry -- what we

18 consider dry, they still had maybe, like, an inch

19 of liquid on the bottom. Diatomaceous earth was

20 put in there to soak up the liquid. These tanks no 21 longer have free liquid in them.

22 Our preferred alternative for this 23 one, then, would to be to fill up that tank with an 24 inert material. It may be the grout. It may be 25 sand, but we would fill these tanks up to fill up

1 or off site.

2 Other remedies that we looked at was 3 soil excavation. We would actually treat the 4 contents in the tanks and leave the tanks there and 5 then dispose of the soil that is surrounding the 6 tanks, either on site or off site. This treatment 7 here -- when I say in situ treatment, what we would 8 do is actually go in and put in grouting material 9 and grout the tanks with grout-like concrete, which 10 would bind the contamination, and then we would 11 probably leave them in place.

Right now -- I don't know, when we 13 talk about the tanks, these are not only 14 contaminated with radionuclides, but they are also 15 contaminated with organics. We're not real sure 16 what the effect of the organic concentrations would 17 have on the grouting activities. So right now 18 we're doing a treatability study, which means that 19 we're going out and performing laboratory testing 20 to determine just what organics, what effect that 21 would have on the grout.

The last bulletin you see there is 22 23 in situ vitrification of the tank contents and the 24 soils around the tanks. When we say in situ 25 vitrification, we're talking about putting graphite

Page 33 Page 35 1 the void space and then we would leave them alone 1 of the state? Is it just about the same? 2 then. The contamination is at the bottom of the MR. SIMPSON: What are you referring 3 tanks. Because of the physical size of the tanks, 3 to? 4 they are buried, like, 10 feet under the ground. 4 AUDIENCE MEMBER: How many people 5 The tanks are 15 foot in diameter, so any 5 actually come to these meetings? 6 contamination that that is there now is, like, 6 MR. SHAW: This is the first one. 7 25 feet below the surface of the ground. So our 7 We're doing it again tomorrow night in Boise and 8 then Thursday night in Moscow. 8 preferred alternative with this one is to fill it AUDIENCE MEMBER: Are you proposing 9 up with an inert material. 10 So far tonight we've discussed our 10 the same Test Area North? Did you propose that 11 alternatives that we've looked at and then our 11 last month, too, in January or was that a different 12 preferred alternative what we presented to you. 12 site? 13 Our total cost, as can see for all of these 13 MR. SHAW: Those were different. 14 alternatives, is about \$25.8 million. That is for 14 MR. SIMPSON: Those facilities, the 15 the capital cost. 15 Naval Reactors Facility, which is kind of in the 16 middle of site and Argonne National Laboratory-West. What we plan on doing is, just in 16 17 the future, after we get your comments, we will 17 MR. SIMPSON: Any other questions? 18 incorporate your comments and develop a Record of 18 Now I would like to encourage anyone who has any 19 Decision, picking alternatives acceptable to 19 comments to take the mike from me and make the 20 everyone. That Record of Decision is planning on 20 comments. I would like to state that when you make 21 being completed in the fall of this year. And then 21 your comment, please clearly speak your name and 22 give your address so we can send you a copy of the 22 as soon as the Record of Decision is completed and 23 approved by all agencies, then we would start the 23 Record of Decision. Would anyone like to make any 24 remedial action and remedial design process. 24 comments? Yes, Mr. White. I'm going to turn it back over to 25 25 Page 34 Page 36 1 Erik. MR. SIMPSON: Does anyone have any 2 PUBLIC COMMENT 3 questions on what you've seen tonight? Any part of 3 4 the presentation that you need some clarification AUDIENCE MEMBER: Well, for any of 5 you guys that have been around for a while, I try 5 on? So everyone has read the proposed plan, the 6 RI/FS and understands everything. 6 to go to most of these because it's of interest, AUDIENCE MEMBER: Are these all in 7 and I was at the site for a number of years and 8 Arco area or how big is the area that you're 8 what have you. And I have been involved with 9 nuclear projects around the county. 9 talking about? MR. SHAW: That is about 80 square 10 In going through this TAN proposed 10 11 miles Test Area North is -- how big would you say? 11 plan here, this is one of the most, I think, MR. SIMPSON: We're talking about a 12 complete 13 very small portion of that in respect to release 13 or -- I guess that is the word to use, complete 14 assessment of all of these alternatives that I have 14 sites. AUDIENCE MEMBER: Isn't it right by 15 seen. They all covered -- different ones covered 15 16 assessments, but this one seems to be in more 16 Arco by INEEL? MR. SHAW: Yeah, these are on the 17 detail and seems to be -- if you'll pardon the 17 18 expression -- more thought out than some of the 18 INEEL. Arco sits over here. The sites that we're 19 others. 19 talking about are up here. MR. SIMPSON: Any other questions? 20 I looked at all the alternatives, 21 and I think in every case, the alternative that was 21 I'm amazed. I guess now we can go ahead and move 22 chosen certainly seemed to be the right approach to 22 on into the public comment session, unless anyone 23 the problem at hand for that particular site. 23 would like to take a short break first. 24 Others would have worked, but this, for one reason 24 AUDIENCE MEMBER: I have a 25 or another, either cost-wise or the use of the land 25 question. What was the response like in the rest

Page 37	Page 39
1 in the future being catalogued and what have you.	1 September 28, 1998
2 I was on a task force here several	2
3 years ago where we looked at the whole site, about	3
4 what would happen over the next 10, 25, 50, 75 and	4
5 100 years. Believe it or not, there is the	5
6 possibility that 100 years from now that might be a	6
7 housing area. Who knows? It's hard to tell. So	7
8 all in all, I was pretty well pleased with what I	8
9 read here, and I thought that the alternatives that	9
10 were chosen were pretty apropos.	10
11 MR. SIMPSON: Thank you. Anyone	11
12 else? Would anyone else like to make a comment?	12
With that, I guess I would like to	13
14 remind people that the comment period remains open	14
15 until March 18. And the next time we will be out	15
16 for public meeting will be for the Comprehensive	16
17 Remedial Investigation/Feasibility Study for the	17
18 Idaho Chemical Processing Plant. So far, that	18
19 project has a great deal of interest, both within	
	19
20 the state and nationally as well. And we will be	20
21 here in May, I believe the dates are May 5th, 6th	21
22 and 7th. So we will be in Idaho Falls May 5th.	22
With that, I would like to thank	23
24 everyone for coming tonight and feel free to send	24
25 us comments. Once again, there is a comment form	25
Page 38	
1 on the back of each proposed plan, a postage-paid	
2 comment form.	
3 So thanks for coming.	
4	
5 (Meeting concluded at 8:00 p.m.)	
6 STATE OF IDAHO } ss.	
7 County of Ada)	
8	
9 I, NANCYSCHWARTZ, a Notary	
10 Public in and for the State of Idaho, do hereby	
11 certify:	
12 That said hearing was taken down by me	
13 in shorthand at the time and place therein named	
14 and thereafter reduced to computer type, and that	
15 the foregoing transcript contains a true and	
16 correct record of the said hearing, all done to the	
17 best of my skill and ability.	
If urther certify that I have no interest in the event of the action.	
20 WITNESS my hand and seal this 20th day	
21 of March, 1998.	
22 Nancy Schwartz, Notary	
Public in and for the	
State of Idaho	
25	

1	
2	STATE OF IDAHO)
3	County of Ada)
4	
5	I, NANCYSCHWARTZ, a Notary
6	Public in and for the State of Idaho, do hereby
7	certify:
8	That said hearing was taken down by me
9	in shorthand at the time and place therein named
10	and thereafter reduced to computer type, and that
11	the foregoing transcript contains a true and
12	correct record of the said hearing, all done to the
13	best of my skill and ability.
14	I further certify that I have no
15	interest in the event of the action.
16	WITNESS my hand and seal this 20th day
17	of March, 1998.
18	Money Schurst
19	Nancy Schwartz, Novary Public in and for the
20	State of Idaho
21	My commission expires:
22	September 28, 1998
23	
24	
25	

Solid Soli							Idano	Fails, Idaho,	2/24/98
SZOR) 29.1 50.00 37.4 50.000 37.4 50.000 37.4 50.000 37.2 53.0 9.19 55.0 9.19 9.19 55.0 9.19 9.19 55.0 9.19 9.19 55.0 9.19 9.19 55.0 9.19 9.19 55.0 9.19 9.19 55.0 9.19 9.19 55.0 9.19 9.19 55.0 9.19 9.19 55.0 9.19 9.19 55.0 9.19 9.19 55.0 9.19	·			active[1]	9:8	Anderson [1]	1:24	average [1]	20:18
	-\$ -		5-			answer [2]	4:23		24:24
\$25.8 (i) 33.14 \$3.14 \$3.14 \$3.14 \$3.14 \$3.14 \$3.14 \$3.14 \$3.14 \$3.14 \$3.14 \$3.14 \$3.14 \$3.14 \$3.14 \$3.15 \$3.17 \$3.18 \$3.14 \$3.14 \$3.15 \$3.1			50 m 37.4	20:23 23:5					
100 11-11 16-11		33:14				apply [1]	32:2		
		JJ.17			9:2				
				9:9					
							··	Dalancing [2]	23:24
			الا 1/31 وعيسب. الا	1 0.7 0.3			33:23		
	'60s [2] 9:4	14:10	-						
1-1			1-					Dase-case [1]	18:23
1			6th [1] 37:21						
Till 5:17 5:18 5:18 5:19 5:18 5:19 5:18 5:19		_		30:3 30:8	31:6	34:16 34:19	J7:8	begin [1]	3:7
188	-1-		-7-	31:25 32:4			2.7	below [2]	27:14
Add [i] 38.7		E-10						33:7	
1.00 1.1						4:11 4:18	5:17		
1.000 tp 11:2 18:9 22:10 6.77 7:3 7:15 11:12 27:11 11:12 27:11 11:12 27:11 11:12 27:11 11:12 27:11 11:12 27:11 11:12 27:11 11:12 27:11 11:12 27:11 11:12 27:11 11:12 27:11 11:12 27:11 11:12 11:12 27:11				additional [1]		5:18 5:19	6:5	better[1]	7:23
1-00 1-0			/ ш [1] 3/;22	address [2]		6:7 7:3	7:15	between [3]	
1-07B pr		11.2		— 35:22				11:12 27:11	. *
9.15 4.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.5 1.6 1.7 1.6 1.6 1.5 1.6 1.6 1.6 1.5 1.6 1.6 1.5 1.6 1.6 1.5 1.6 1.6 1.5 1.6 1.6 1.5 1.6 1.5 1.6 1.6 1.5 1.6 1.5 1.6 1.6 1.5 1.6 1.5 1.6 1.5 1.6 1.6 1.5 1.5		9-12						big [3] 15:9	34:8
1.42 1624 1634 1634 162 1610 151 1515 1610 13010 1611 1611 1611 162 1611 162 1611 162 1611 162 1611 162 1611 162 1611 162 1611 162 1611 162 1611 162 1611 162 1611 1611 1611 1611 1611 1611 1611 162 1611 162 1611 1611 162 1611 1611 162 1611 16				9:15 9:23				34:11	
1-10			800 [1] 11:2			14:9 18:8			
1.6 (i) 28.23 10 (i) 6:13 16:2 28.23 10 (i) 6:13 3:24 29:15 33:4 37:4 13:19 13:23 22:16 13:19 13:23 22:16 13:19 13:23 22:16 13:19 13:23 22:16 13:19 13:23 22:16 13:19 13:23 22:16 13:19 13:23 22:16 13:19 13:23 22:16 13:19 13:23 22:16 13:19 13:23 22:16 13:19 13:23 22:16 13:19 13:23 22:16 13:19 13:23 22:16 13:19 13:23 22:16 13:19 13:23 22:16 13:19 13:23 22:16 13:19 13:23 22:16 13:19 13:23 23:17 100.000 gallon (i) 12:1 16:13 37:5 37:6 37:5				after [6] 5:4		19:20 20:17	21:2	binding [1]	2:14
10 10 10 10 10 10 10 10				11:4 23:13		21:16 25:9	25:10		17:17
18:13 29:15 33:4 37:4 37:4 37:7 37:5 37:6 37:5 37:6 37:5		16.2							29:22
37.4 13.000 [4] 18.12 18.13 21.23 23.11 13.16 13.19 13.23 22.16 13.19 37.5 37.5 37.25 37.25 37.25 37.2 37.4 37.7 37.27			O						
10,000		_ = •		رم again ام			אזייר		~ ~ 1 m d
18:13 21:23 23:1 10:000-gallon (i) 11:11 16:7 16:7 10:15 10:		18:12					21-15	E .	12:1
10,000-gallon 1			13:19 13:23 22:.						
12:15 3					19:13		2:24		Lanun
100	12:15	4 · 4	<u> </u>				8.25		1.26
16:13 37:5 37:6 ability (i) 38:17 33:23 31:20 boss (i) 6:8 bottle (i) 14:3 asoc (i) 17:10 acceptable (r) 18:11 5:7 asoc (i) 17:10 asceptable (r) 18:11 5:7 asceptable (r) 18:11 5:7 asceptable (r) 18:11 37:3 asceptable (r) 18:11 3:21 24:15 acceptable (r) 18:11 3:21 39:1 acceptable (r) 18:13 37:3 agreement (g) 2:13 assesse (l) 15:2 brief (l) 7:15 brief (l) 7:1	100 [5] 11:11		abandoned m 9:10						1:25
12th [ii] 3:2 3:15 15 15 15 15 15 15 15	16:13 37:5			_ 3:4 3:12	1:0		ı,		İ
15 [1] 33:5 18 [2] 1:9 37:15 absolutely [1] 23:17 acceptable [7] 18:11 18:19 19:7 20:8 20:12 27:25 33:19 24:15 24:15 24:15 24:15 25:23 25:23 23:2 13:20 25:23 23:2 13:20 25:23 23:2 25:23 23:2 2	12th [1] 3:2			_ 55.25	2.16		1		14-2
18 23 1.9 37.15 absolutely (i) 23:17 agenda [2] 4:17 5:7 ago [4] 2:23 9:7 ago [4] 2:23 3:21 agreement [3] 2:13 agreement [3]			20:18	4:25 6:13	4.10		17.10		
1950s [i]		37:15			4-17		11:10		
1954					4.47		31-21		J4:17
20:12 27:25 33:19 33:19 34:13 34:15 24:1			18:19 19:7 20:8	ago (4) 2:23	9:7				34.22
			20:12 27:25 33:1	9 11:6 37:3					لاڪيو ت
1995 [1] 14:13 24:15 24:			acceptance [3] 24:1	_ 11.0 37.5	2:13				22.14
1998 [4] 116 2:1 accepts [1] 7:9 accepts [1] 7:10 access [3] 17:22 25:5 25:23 accident [1] 8:20 accomplished [1] 25:6 acres [2] 12:4 25:5 12:25 action [29] 9:19 11:6 2:1 2:5 12:25 action [29] 9:19 11:6 12:4 13:25 25:10 21:14 13:24 28 [1] 39:1 38:20 35-acre [2] 12:8 28:4 38:19 28:25 29:18 28:24 38:19 38:19 36:14 36:20 37:9			24:15 24:15			1			
1998		9.1	accepting [1] 7:9		34:21				
1999		4:1	accepts [1] 7:10	Air [1] 5:19					
25:5 25:23 accident [1] 8:20 accomplished [1] 25:6 27:11 1:11 1:12 20:17:22 accomplished [1] 25:6 accomplished [1] 25:1 accomplished			access [3] 17:2	A A A A [A]	7:24				
Complement Com	a タフフ [1] 1:9		25:5 25:23	8:3	 -T				
Complished Com			accident[1] 8:20		7:22	19:8 19:23	19:24		
2 [2] 12:14 13:22 25:6 acres [2] 12:9 28:4 along [3] 17:17 17:17 22 27:21 alternative [14] 21:13 25:14 25:16 25:23 27:1 27:3 27:15 27:22 27:21 27:15 27:22 27:21 27:15 27:22 27:21 27:15 27:22 27:21 27:15 27:22 27:21 27:15 27:22 27:21 27:15 27:22 27:21 27:15 27:22 27:21 27:16 27:15 27:22 27:21 27:15 27:22 27:21 27:16 27:15 27:22 27:21 27:23 27:15 27:22 27:21 27:23 27:15 27:22 27:23 27:15 27:22 27:23 27:15 27:22 27:23 27:15 27:22 27:23 27:15 27:22 27:23 27:15 27:22 27:23 27:15 27:22 27:23 27:15 27:22 27:23 27:15 27:22 27:23 27:15 27:22 27:23			accomplished [1]	8:4 11:1		20:7 20:21	36:14		14:20
20th [1] 38:20 23 [2] 1:16 2:1 2421 [1] 1:24 25 [2] 33:7 37:4 28 [1] 39:1 -3- 3 [1] 12:14 35-acre [2] 12:8 28:4 -4- 400 [1] 19:10 400-gallon [1] 12:16 21:16 2:1 across [3] 12:2 12:5 12:25 action [29] 9:19 11:6 12:4 13:25 26:23 27:1 27:3 26:23 27:3 28:4 26:23 27:3 28:4 26:23 27:3 28:4 26:23 27:3 28:4 26:23 27:3 28:4 26:23 27:3 28:4 26:23 27:3 28:4 26:23 27:3 28:4 26:23 27:3 28:4 26:23 27:3 28:4 26:23 27:3 28:4 27:3 28:4 28:4 28:11 8:24 8:25 28:11 8:24 28:11 8:24 8:25 36:16 38:30		13:22	25:6	alone [1]	33:1	assessments [4]]		
23 [2] 1:16 2:1 2421 [1] 1:24 25 [2] 33:7 37:4 28 [1] 39:1 -3- 3 [1] 12:14 35-acre [2] 12:8 28:4 -4- 400 [1] 19:10 400-gallon [1] 12:16 21:25 12:25 3ction [29] 9:19 12:2 17:22 27:21 alternative [14] 21:13 22:4 23:11 26:15 22:4 23:11 26:15 22:4 23:11 26:15 22:4 23:11 26:15 22:4 23:11 26:15 22:4 23:11 26:15 22:4 23:11 26:15 22:4 23:11 26:15 22:4 23:11 26:15 22:4 23:11 26:15 22:4 23:11 26:15 22:4 23:11 26:15 22:4 23:11 26:15 22:4 23:11 26:15 23:22 33:8 33:12 35:16 associated [6] 3:13 4:18 5:16 16:22 21:4 23:8 assume [2] 14:23 18:23 18:23 18:24 29:21 29:22 33:24 36:21 30:10 atternative [14] 21:13 4:18 5:16 16:22 21:4 23:8 assume [2] 14:23 18:23 18:24 29:10 21:11 24:23 29:10 21:2 27:21 alternative [14] 21:13 4:18 5:16 16:22 21:4 23:8 assume [2] 14:23 18:23 17:12 19:4 21:25 18:24 26:23 21:6 21:8 29:31 28:25 29:18 26:23 21:6 21:8 29:31 28:25 29:18 26:31 32:16 21:8 29:31 28:25 29:18 29:21 29:22 33:24 33:11 33:14 33:19 36:10 associated [6] 3:13 4:18 5:16 16:22 21:4 23:8 assume [2] 14:23 18:23 18:24 26:21 18:24 3ssumption [1] 18:23 attendance [1] 5:11 attention [1] 4:8 audience [7] 6:6 34:7 34:15 34:24 50:10 21:4 23:8 30:10 21:4 23:8 30:10 21:4 23:8 30:10 21:4 23:8 30:10 21:4 23:8 30:10 21:4 23:8 30:10 21:4 23:8 3sume [2] 14:23 18:23 18:23 18:24 3sumption [1] 18:23 attendance [1] 5:11 attention [1] 4:8 audience [7] 6:6 34:7 34:15 34:24 35:4 35:9 36:4 -C- C[2] 38:9 38:9	20th [1] 38:20		acres [2] 12:9 28:4			13:13 13:23			
2421 [1] 1:24 25 [2] 33:7 37:4 28 [1] 39:1 -3- 3 [1] 12:14 35-acre [2] 12:8 28:4 -4- 400 [1] 19:10 400-gallon [1] 12:16 12:5 12:25 action [29] 9:19 11:6 12:4 13:25 12:4 13:25 14:1 14:5 14:12 27:15 27:22 32:6 26:23 27:1 27:3 26:23 27:1 27:3 26:23 27:1 27:3 26:23 27:1 27:3 26:23 27:1 27:3 27:15 27:22 32:6 36:21 28:4 23:8 29:10 21:6 22:4 23:11 26:15 26:23 27:1 27:3 26:23 27:1 27:3 27:15 27:22 32:6 36:21 28:4 23:8 29:10 21:4 23:8 21:4 23:4 21:4 23:8 21:4 23:4 21:4 23:8 21:4 23:4 21:4 23:8 21:4 23:4 21:4 23:4 21:4 23:4 21:4 23:4 21:4 23:4 21:4 23:4 21:4 23:4 21:4 23		2:1	across [3] 12:2	2 17:22 27:21					30:22
25 [2] 33:7 37:4 28 [1] 39:1 -3- 11:6 12:4 13:25 26:23 27:1 27:3 27:3 27:15 27:22 32:6 15:5 15:6 15:16 32:22 33:8 33:12 15:5 15:6 15:16 32:22 33:8 33:12 15:17 20:22 21:6 36:21 25:3 25:4 26:17 26:23 27:1 27:16 28:13 28:25 29:18 26:6 31:8 31:9 36:14 36:20 37:9 36:14 36:20 37:9 36:14 36:20 37:9 36:14 36:20 37:9 36:4 36:4 36:20 37:9 36:4 36:4 36:20 37:9 36:4 36:4 36:20 37:9 36:4 36:21 36:15 33:4 36:20 37:9 36:14			12:5 12:25	alternative [14					25:16
11:6 12:4 13:25 26:23 27:1 27:3 27:25 23:6 14:1 14:5 14:12 27:15 27:22 32:6 15:5 15:6 15:16 32:22 33:8 33:12 15:5 15:6 15:16 32:22 33:8 33:12 15:17 20:22 21:6 36:21 21:10 21:11 24:23 25:3 25:4 26:17 26:22 27:1 27:16 28:13 28:25 29:18 26:6 31:8 31:9 29:21 29:22 33:24 38:19 36:14 36:20 37:9 36:14 36:20 3		37:4	action [29] 9:19	22:4 23:11	26:15		10:22		
14:1			11:6 12:4 13:2	26:23 27:1	27:3	· · ·	14:00		10:15
15:17 20:22 21:6 36:21	ا.75 إني <i>ن</i> ي ت						17:25		10:22
21:10 21:11 24:23 25:3 25:4 26:17 26:23 21:6 21:8 26:22 27:1 27:16 28:13 28:25 29:18 29:21 29:22 33:24 38:19 36:14 36:20 37:9 36:14 36:					JJ:12		18:22		
25:3 25:4 26:17 6:23 21:6 21:8 28:4 26:17 26:22 27:1 27:16 21:9 23:10 24:9 28:13 28:25 29:18 29:21 29:22 33:24 38:19 36:14 36:20 37:9 actions [3] 14:2 38:19 14:2 3 29:10 24:9 23:10 24:9 2					O		10.22	7	
35-acre [2] 12:8 28:4 27:1 27:16 21:9 23:10 24:9 28:13 28:25 29:18 29:21 29:22 33:24 38:19 36:14 36:20 37:9 actions [3] 14:2 29:10 24:2 amends [1] 34:21 amends [1] 4:5 36:4 35:9 36:4 36:9 38:9				_			18-22		
28:4 28:13	35-acre [2]	12:8	26:22 27:1 27:1	6 21:9 23:10					5:25
29:21 29:22 33:24 33:11 33:14 33:19 36:14 36:20 37:9 actions [3] 14:2 amazed [1] 34:21 amends [1] 4:5 audience [7] 6:6 34:7 34:15 34:24 35:9 36:4 C[2] 38:9 38:9			28:13 28:25 29:1	8 26:6 31:8				F	
-4- 400 [1] 19:10 400-gallon [1] 12:16 38:19	· · · · · · · · · · · · · · · · · · ·		29:21 29:22 33:2	33:11 33:14	33:19			Juys[1] /:10	į
400 [1] 19:10 400-gallon [1] 12:16 amazed [1] 34:21 35:4 35:9 36:4 C [2] 38:9 38:9	-4-			36:14 36:20					
400-gallon [1] 12:16 14.25 25.10 amends [1] 4:5 C [2] 38:9 38:9	400 m 19:10			[1,]					
TOO Banou(i) 12.10		12:16	17:23 29:10	amends [1]	4:5	30.3	- · ·	C [2] 38:9	38:9
Index Dec	9[1]		10000	0222		<u></u>			

calculate [2]							
	18:24	35:20 35:24 37:25	13:1 13:7	14:6	deals [2] 17:21 19:14	divided [1] 21:	14
19:1		commission [1] 32:17	14:7 14:8	15:4	dealt [2] 16:10 19:24	Division [1] 6:1	1
calculated [3]	18:7	community [2] 2:4	16:18 17:14	18:17	debris [2] 10:18	document [2] 15:	8
18:8 18:22		4:13	19:7 19:20 21:18 21:24	20:17 25:5	26:14	15:9	-
ancer [4]	17:24	Company [2] 6:1	25:8 25:13	25:23	decision [13] 3:5	documentation [1]	ı
18:4 18:13	19:25	6:4	26:9 27:18	27:19	3:24 3:24 5:14	25:17	
cap[1] 25:21		compare [3] 23:11	28:2 28:5	28:19	9:13 14:24 15:12	DOE [3] 6:19 18:	22
capital [1]	33:15	24:2 24:9	30:10 31:2	33:2	15:14 15:15 33:19	18:24	
carbon [1]	13:2	compared [2] 19:12	33:6		33:20 33:22 35:23	done [6] 12:4 20:	2
care[i] 31:12		20:7	contents [11]	11:23	decisions [1] 7:11	28:7 29:3 31:	
carried [1]	16:1	comparison [1] 19:8	12:24 22:11	29:24	decontamination [2]	38:16	
case[1] 36:21		complete [2] 36:12	30:4 30:23	31:5	23:5 23:8	Doug [4] 5:24	
catalogued [1]	37:1	36:13	31:12 32:4 32:14	32:11	deed [1] 25:14	13:11 21:2 28:	6
categories [1]	10:10	completed [3] 2:12		25.5	Department [5] 2:15	down [11] 8:9	
		33:21 33:22	control [3] 25:9 28:24	25:5	5:20 6:10 7:14	8:17 11:7 12:	
caused [1]	31:23	comply [1] 23:21		25.15	25:15	12:13 14:11 14:	
certain [2] 24:1	21:13	comprehensive [13]	controlling [1]	25:15	depicts [1] 16:15	18:18 23:6 31: 38:12	22
		1:6 2:7 2:11	cool [1] 8:15		Desert [1] 7:25	1	
certainly [2]	9:4	2:17 2:25 3:10	cools [1]	31:5	design [2] 15:16	drop [1] 25:1	
36:22	20.11	4:19 4:22 6:2	cooperatively	[1]	33:24	dropped [1] 29:	
certify [2] 38:18	38:11	6:6 14:22 15:7	7:5		detail [2] 9:23	dry [2] 32:17 32:	18
	01.00	37:16	coordinator [1]	-	36:17	dug [1] 11:7	
cesium [2] 28:6	21:22	computer [1] 38:14	copies [1]	5:14	detected [1] 19:12	during [4] 5:1	
zo:0 cesium-137 [3]	10.6	concentrations [2]	copy [2] 15:8	35:22	determinations [4]	17:25 23:2 23:	4
cesium-13 / [3] 12:10 17:6	J 12:6	19:13 30:16	cores [2] 8:16	8:17	13:25 14:1 15:6	dust[1] 16:20	
	10.0	concern [1] 17:3	corner [1]	12:9	15:18	~~~~	
chance [2] 18:12	18:3	concerned [1] 10:23	correct [1]	38:16	determine [1] 30:20	-E-	
Chemical [1]	47.10	concluded [1] 38:5	correlated [1]	17:16	determined [1] 20:9	earth [2] 13:5 32:	10
	37:18	concrete [2] 25:12	1	29:2	develop [2] 21:10		
chemicals [1]	17:15	30:9	cost [4] 28:22 33:13 33:15	29:2	33:18		/
choose [1]	21:25	conducted [2] 14:13	cost-wise [1]	36:25	developed [1] 31:24	casy [1] 24:6	
chosen [2]	36:22	14:13		30:23	developing [3] 17:24	eco [2] 9:25 10:2	
37:10		conducting [1] 6:1	costs [1] 24:8			ecological [6] 9:18	8
		COHURCHIE II 0:1			1 18:4 18:13		
Citizens' [1]	4:10		county [2]	36:9		9:22 9:24 15:3	23
clarification [connecting [1] 11:11	county [2] 38:7		diagram [1] 16:22	9:22 9:24 15:3 15:25 16:2	
Citizens' [1] clarification [1 34:4			county [2] 38:7 couple [3]	36:9 5:23	diagram [1] 16:22 diameter [1] 33:5	9:22 9:24 15:: 15:25 16:2 effect[3] 10::	
clarification [1 34:4 clean [1]		connecting [1] 11:11 Consent [2] 2:13 4:15	county [2] 38:7 couple [3] 5:24 17:6	5:23	diagram [1] 16:22 diameter [1] 33:5 diatomaceous [2]	9:22 9:24 15:: 15:25 16:2 effect _[3] 10:: 30:16 30:20	3
clarification [1 34:4	1)	connecting [1] 11:11 Consent [2] 2:13	county [2] 38:7 couple [3] 5:24 17:6 course [3]		diagram [1] 16:22 diameter [1] 33:5 diatomaceous [2] 13:4 32:19	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24::	3 5
clarification (1 34:4 clean (1) clean-up (1)	23:2	connecting [1] 11:11 Consent [2] 2:13 4:15 conservative [1]	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25	5:23 2:19	diagram [1] 16:22 diameter [1] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1:	3 5
clarification (1 34:4 clean (1)	23:2 2:14	connecting [1] 11:11 Consent [2] 2:13 4:15 conservative [1] 19:2 consider [1] 32:18	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1	5:23 2:19 4:5	diagram [1] 16:22 diameter [1] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4	3 5 5
clarification [1 34:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2	23:2 2:14	connecting [1] 11:11 Consent [2] 2:13 4:15	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2]	5:23 2:19	diagram [i] 16:22 diameter [ii] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2	3 5 5
clarification [1 34:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2	23:2 2:14 11:4	connecting [1] 11:11 Consent [2] 2:13 4:15	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15	5:23 2:19 4:5 36:15	diagram [i] 16:22 diameter [i] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:14 17:14 17:14 19:4 27:9 different [is] 16:4 20:3 21:15 22:23	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2: 10:7 10:9	3 5 5
clarification [1 34:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1]	23:2 2:14 11:4	connecting [1] 11:11 Consent [2] 2:13 4:15	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1]	5:23 2:19 4:5 36:15 26:17	diagram [i] 16:22 diameter [i] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9 different [is] 16:4 20:3 21:15 22:23 23:9 24:3 24:10	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2 10:7 10:9 Bisenhower [1] 7:26	3 5 5 1
clarification [1 34:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1]	23:2 2:14 11:4 35:21 6:18	connecting [1] 11:11 Consent [2] 2:13 4:15	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] created [1]	5:23 2:19 4:5 36:15 26:17 31:3	diagram [i] 16:22 diameter [i] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9 different [is] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2 10:7 10:9 Eisenhower [1] 7:20 either [4] 29::	3 5 5 1 0 24
clarification [1 34:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1] Clyde [3]	23:2 2:14 11:4	connecting [1] 11:11 Consent [2] 2:13 4:15 conservative [1] 19:2 consider [1] 32:18 consisted [1] 14:14 construction [2] 10:18 26:14 contain [1] 25:22 containment [2]	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] created [1] criteria [17]	5:23 2:19 4:5 36:15 26:17 31:3 23:12	diagram [i] 16:22 diameter [i] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9 different [is] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9 29:13 29:15 31:7	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2: 10:7 10:9 Eisenhower [1] 7:20 either [4] 29:25 30:6 36::	3 5 5 1 0 24 25
clarification [1 34:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1] Clyde [3] 6:10 7:8	23:2 2:14 11:4 35:21 6:18 6:9	connecting [1] 11:11 Consent [2] 2:13 4:15 conservative [1] 19:2 consider [1] 32:18 consisted [1] 14:14 construction [2] 10:18 26:14 contain [1] 25:22 containment [2] 25:20 25:20	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] created [1] criteria [17] 23:13 23:15	5:23 2:19 4:5 36:15 26:17 31:3 23:12 23:16	diagram [i] 16:22 diameter [i] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9 different [is] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9 29:13 29:15 31:7 31:19 31:20 35:11	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2 10:7 10:9 Eisenhower [1] 7:20 either [4] 29:2 29:25 30:6 36:: electrodes [4] 31:	3 5 5 1 0 24 25 1
clarification [1 34:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1] Clyde [3] 6:10 7:8	23:2 2:14 11:4 35:21 6:18	connecting [1] 11:11 Consent [2] 2:13 4:15 conservative [1] 19:2 consider [1] 32:18 consisted [1] 14:14 construction [2] 10:18 26:14 contain [1] 25:22 containment [2] 25:20 25:20 contains [1] 38:15	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] created [1] criteria [17] 23:13 23:15 23:17 23:17	5:23 2:19 4:5 36:15 26:17 31:3 23:12 23:16 23:23	diagram [i] 16:22 diameter [i] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9 different [is] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9 29:13 29:15 31:7 31:19 31:20 35:11 35:13 36:15	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2 10:7 10:9 Eisenhower [1] 7:20 either [4] 29:2 29:25 30:6 36:: electrodes [4] 31:: 31:1 31:3 31:3	3 5 5 1 0 24 25 1 20
clarification [134:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1] Clyde [3] 6:10 7:8 co-located [3] 22:15 22:23	23:2 2:14 11:4 35:21 6:18 6:9	connecting [1] 11:11 Consent [2] 2:13 4:15 conservative [1] 19:2 consider [1] 32:18 consisted [1] 14:14 construction [2] 10:18 26:14 contain [1] 25:22 containment [2] 25:20 25:20 contains [1] 38:15 contaminant [3]	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] created [1] criteria [17] 23:13 23:15 23:17 23:17 23:25 23:25	5:23 2:19 4:5 36:15 26:17 31:3 23:12 23:16 23:23 24:2	diagram [i] 16:22 diameter [i] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:14 17:14 17:14 19:4 27:9 different [is] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9 29:13 29:15 31:7 31:19 31:20 35:11 35:13 36:15 dig [3] 26:1 27:23	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2: 10:7 10:9 Eisenhower [1] 7:20 either [4] 29:2 29:25 30:6 36:: electrodes [4] 31:: 31:1 31:3 31:: emphasis [1] 8:10	3 5 5 1 0 24 25 1 20 0
clarification [134:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1] clyde [3] 6:10 7:8 co-located [3] 22:15 22:23 cocktail [1]	23:2 2:14 11:4 35:21 6:18 6:9 22:14 12:17	connecting [1] 11:11 Consent [2] 2:13 4:15 conservative [1] 19:2 consider [1] 32:18 consisted [1] 14:14 construction [2] 10:18 26:14 contain [1] 25:22 containment [2] 25:20 25:20 contains [1] 38:15 contaminant [3] 10:23 20:10 20:11	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] created [1] criteria [17] 23:13 23:15 23:17 23:17 23:25 23:25 24:3 24:10	5:23 2:19 4:5 36:15 26:17 31:3 23:12 23:16 23:23 24:2 24:12	diagram [1] 16:22 diameter [1] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9 different [18] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9 29:13 29:15 31:7 31:19 31:20 35:11 35:13 36:15 dig [3] 26:1 27:23 29:1	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2 10:7 10:9 Bisenhower [1] 7:20 either [4] 29:2 29:25 30:6 36:: electrodes [4] 31:: 31:1 31:3 31:: emphasis [1] 8:10 encourage [1] 35::	3 5 5 1 0 24 25 1 20 0
clarification [134:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1] Clyde [3] 6:10 7:8 co-located [3] 22:15 22:23	23:2 2:14 11:4 35:21 6:18 6:9	connecting [1] 11:11 Consent [2] 2:13 4:15 conservative [1] 19:2 consider [1] 32:18 consisted [1] 14:14 construction [2] 10:18 26:14 contain [1] 25:22 containment [2] 25:20 25:20 contains [1] 38:15 contaminant [3] 10:23 20:10 20:11 contaminants [6]	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] created [1] criteria [17] 23:13 23:15 23:17 23:17 23:25 23:25 24:3 24:10	5:23 2:19 4:5 36:15 26:17 31:3 23:12 23:16 23:23 24:2	diagram [i] 16:22 diameter [i] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:14 17:14 17:14 19:4 27:9 different [is] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9 29:13 29:15 31:7 31:19 31:20 35:11 35:13 36:15 dig [3] 26:1 27:23	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:15: 10:4 20:4 eight [4] 9:16 9:2 10:7 10:9 Eisenhower [1] 7:26 either [4] 29:2 29:25 30:6 36:2 electrodes [4] 31:: 31:1 31:3 31:2 emphasis [1] 8:16 encourage [1] 35:: encouraging [2]	3 5 5 1 0 24 25 1 20 0
clarification [134:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1] clyde [3] 6:10 7:8 co-located [3] 22:15 22:23 cocktail [1] clody [2] 6:17	23:2 2:14 11:4 35:21 6:18 6:9 22:14 12:17 6:10	connecting [1] 11:11 Consent [2] 2:13 4:15 conservative [1] 19:2 consider [1] 32:18 consisted [1] 14:14 construction [2] 10:18 26:14 contain [1] 25:22 containment [2] 25:20 25:20 contains [1] 38:15 contaminant [3] 10:23 20:10 20:11 contaminants [6]	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] created [1] criteria [17] 23:13 23:15 23:17 23:17 23:25 23:25 24:3 24:10 24:12 24:25	5:23 2:19 4:5 36:15 26:17 31:3 23:12 23:16 23:23 24:2 24:12 25:2	diagram [1] 16:22 diameter [1] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9 different [18] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9 29:13 29:15 31:7 31:19 31:20 35:11 35:13 36:15 dig [3] 26:1 27:23 29:1 direct [2] 4:7	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:15: 10:4 20:4 eight [4] 9:16 9:2 10:7 10:9 Eisenhower [1] 7:20 either [4] 29:2 29:25 30:6 36:2 electrodes [4] 31:: 31:1 31:3 31:2 emphasis [1] 8:10 encourage [1] 35:: encouraging [2] 3:14 5:8	3 5 5 1 0 224 225 1 220 0 118
clarification [134:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1] clyde [3] 6:10 7:8 co-located [3] 22:15 22:23 cocktail [1] Cody [2] 6:17 Cold [2] 2:10	23:2 2:14 11:4 35:21 6:18 6:9 22:14 12:17 6:10	connecting [1] 11:11 Consent [2] 2:13 4:15 conservative [1] 19:2 consider [1] 32:18 consisted [1] 14:14 construction [2] 10:18 26:14 contain [1] 25:22 containment [2] 25:20 25:20 contains [1] 38:15 contaminant [3] 10:23 20:10 20:11 contaminants [6] 17:2 17:3 19:5	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] criteria [17] 23:13 23:15 23:17 23:17 23:25 23:25 24:3 24:10 24:12 24:25 29:19	5:23 2:19 4:5 36:15 26:17 31:3 23:12 23:16 23:23 24:2 24:12 25:2	diagram [1] 16:22 diameter [1] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9 different [18] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9 29:13 29:15 31:7 31:19 31:20 35:11 35:13 36:15 dig [3] 26:1 27:23 29:1 direct [2] 4:7 22:1 direction [1] 12:1	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2 10:7 10:9 Eisenhower [1] 7:20 either [4] 29:2 29:25 30:6 36:2 electrodes [4] 31:: 31:1 31:3 31:2 emphasis [1] 8:10 encourage [1] 35:: encouraging [2] 3:14 5:8 end [2] 10:21 29::	3 5 5 1 0 24 25 1 20 0 18
clarification [134:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1] clyde [3] 6:10 7:8 co-located [3] 22:15 22:23 cocktail [1] Cody [2] 6:17 Cold [2] 2:10 combined [1]	23:2 2:14 11:4 35:21 6:18 6:9 22:14 12:17 6:10 7:19 10:5	connecting [1] 11:11 Consent [2] 2:13 4:15	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] criteria [17] 23:13 23:15 23:17 23:17 23:25 23:25 24:3 24:10 24:12 24:25 29:19 cumulative [1]	5:23 2:19 4:5 36:15 26:17 31:3 23:12 23:16 23:23 24:2 24:12 25:2	diagram [1] 16:22 diameter [1] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9 different [18] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9 29:13 29:15 31:7 31:19 31:20 35:11 35:13 36:15 dig [3] 26:1 27:23 29:1 direct [2] 4:7 22:1 direction [1] 12:1 discover [1] 28:17	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2 10:7 10:9 Bisenhower [1] 7:20 either [4] 29:2 29:25 30:6 36:: electrodes [4] 31:: 31:1 31:3 31:: emphasis [1] 8:10 encourage [1] 35:: encouraging [2] 3:14 5:8 end [2] 10:21 29:: ended [1] 9:5	3 5 5 1 0 24 25 1 20 0 18
clarification [134:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1] clyde [3] 6:10 7:8 co-located [3] 22:15 22:23 cocktail [1] clodd [2] combined [1] coming [2]	23:2 2:14 11:4 35:21 6:18 6:9 22:14 12:17 6:10	Connecting [1] 11:11 Consent [2] 2:13 4:15	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] criteria [17] 23:13 23:15 23:17 23:17 23:25 23:25 24:3 24:10 24:12 24:25 29:19 cumulative [1] current [2]	5:23 2:19 4:5 36:15 26:17 31:3 23:12 23:16 23:23 24:2 24:12 25:2	diagram [1] 16:22 diameter [1] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9 different [18] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9 29:13 29:15 31:7 31:19 31:20 35:11 35:13 36:15 dig [3] 26:1 27:23 29:1 direct [2] 4:7 22:1 direction [1] 12:1 discover [1] 28:17 discussed [2] 29:22	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2 10:7 10:9 Eisenhower [1] 7:20 either [4] 29:2 29:25 30:6 36:2 electrodes [4] 31:: 31:1 31:3 31:2 emphasis [1] 8:10 encourage [1] 35:: encouraging [2] 3:14 5:8 end [2] 10:21 29:: ended [1] 9:5 Energy [4] 2:12	3 5 5 1 0 224 225 1 1 220 0 118
clarification [134:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1] clyde [3] 6:10 7:8 co-located [3] 22:15 22:23 cocktail [1] clodd [2] 2:10 combined [1] coming [2] 38:3	23:2 2:14 11:4 35:21 6:18 6:9 22:14 12:17 6:10 7:19 10:5 37:24	Connecting [1] 11:11 Consent [2] 2:13 4:15	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] criteria [17] 23:13 23:15 23:17 23:17 23:25 23:25 24:3 24:10 24:12 24:25 29:19 cumulative [1] current [2] 31:2	5:23 2:19 4:5 36:15 26:17 31:3 23:12 23:16 23:23 24:2 24:12 25:2	diagram [1] 16:22 diameter [1] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9 different [18] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9 29:13 29:15 31:7 31:19 31:20 35:11 35:13 36:15 dig [3] 26:1 27:23 29:1 direct [2] 4:7 22:1 direction [1] 12:1 discover [1] 28:17 discussed [2] 29:22 33:10	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2: 10:7 10:9 Eisenhower [1] 7:20 either [4] 29:2 29:25 30:6 36:3 electrodes [4] 31:: 31:1 31:3 31:3 emphasis [1] 8:10 encourage [1] 35:: encouraging [2] 3:14 5:8 end [2] 10:21 29:: ended [1] 9:5 Energy [4] 2:12 5:20 7:14 25::	3 5 5 1 0 224 225 1 20 0 118
clarification [134:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1] clyde [3] 6:10 7:8 co-located [3] 22:15 22:23 cocktail [1] clody [2] 6:17 Cold [2] 2:10 combined [1] coming [2] 38:3 comment [10]	23:2 2:14 11:4 35:21 6:18 6:9 22:14 12:17 6:10 7:19 10:5 37:24 3:1	Connecting [1] 11:11 Consent [2] 2:13 4:15 2:13 4:15 2:13 4:15 2:13 4:15 2:13 19:2 2:13 20:18 32:18 20:18 26:14 20:18 26:14 20:18 26:14 20:18 26:14 20:18 26:14 20:18 26:20 20:20 25:20 20:20 25:20 20:20 20:11 20:20 20:11 20:21 20:11 20:22 20:11 20:23 20:10 20:11 20:23 20:10 20:11 20:23 20:4 20:24 20:36 20:4 20:25 20:4 20:26 20:36 20:4 20:27 20:4 20:28 20:4 20:29 20:4 20:20 20:20 20:4 20:20 20:20 20:4 20:20 20:20 20:4 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:2	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] criteria [17] 23:13 23:15 23:17 23:25 24:3 24:10 24:12 24:25 29:19 cumulative [1] current [2] 31:2	5:23 2:19 4:5 36:15 26:17 31:3 23:12 23:16 23:23 24:2 24:12 25:2	diagram [1] 16:22 diameter [1] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9 different [18] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9 29:13 29:15 31:7 31:19 31:20 35:11 35:13 36:15 dig [3] 26:1 27:23 29:1 direct [2] 4:7 22:1 direction [1] 12:1 discover [1] 28:17 discussed [2] 29:22 33:10 discussing [1] 2:23	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2 10:7 10:9 Eisenhower [1] 7:20 either [4] 29:2 29:25 30:6 36:: electrodes [4] 31:: 31:1 31:3 31:: emphasis [1] 8:10 encourage [1] 35:: encouraging [2] 3:14 5:8 end [2] 10:21 29:: ended [1] 9:5 Energy [4] 2:12 5:20 7:14 25:: Engine [1] 8:7	3 5 5 1 0 224 225 1 20 0 118
clarification [134:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1] clyde [3] 6:10 7:8 co-located [3] 22:15 22:23 cocktail [1] clody [2] 6:17 Cold [2] 2:10 combined [1] coming [2] 38:3	23:2 2:14 11:4 35:21 6:18 6:9 22:14 12:17 6:10 7:19 10:5 37:24	Connecting [1] 11:11 Consent [2] 2:13 4:15 2:13 4:15 2:13 4:15 2:13 4:15 2:13 19:2 2:13 20:18 20:18 20:18 20:14 20:18 26:14 20:18 26:14 20:10 20:11 20:20 20:20 20:10 20:11 20:21 20:11 20:22 20:25 20:25	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] criteria [17] 23:13 23:15 23:17 23:17 23:25 23:25 24:3 24:10 24:12 24:25 29:19 cumulative [1] current [2] 31:2 -D- data [1] 19:6	5:23 2:19 4:5 36:15 26:17 31:3 23:12 23:16 23:23 24:2 24:12 25:2	diagram [1] 16:22 diameter [1] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9 different [18] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9 29:13 29:15 31:7 31:19 31:20 35:11 35:13 36:15 dig [3] 26:1 27:23 29:1 direct [2] 4:7 22:1 direction [1] 12:1 discover [1] 28:17 discussed [2] 29:22 33:10 discussing [1] 2:23 disposal [7] 17:7	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2 10:7 10:9 Eisenhower [1] 7:20 either [4] 29:: 29:25 30:6 36:: electrodes [4] 31:: 31:1 31:3 31:: emphasis [1] 8:10 encourage [1] 35:: encouraging [2] 3:14 5:8 end [2] 10:21 29:: ended [1] 9:5 Energy [4] 2:12 5:20 7:14 25:: Engine [1] 8:7 engineered [1] 25::	3 5 5 1 0 224 225 1 20 0 118
clarification [134:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1] closely [1] closely [2] 6:10 7:8 co-located [3] 22:15 22:23 cocktail [1] cooktail [1] combined [1] coming [2] 38:3 comment [10] 5:5 7:9	23:2 2:14 11:4 35:21 6:18 6:9 22:14 12:17 6:10 7:19 10:5 37:24 3:1 34:22	Connecting [1] 11:11 Consent [2] 2:13 4:15 2:13 4:15 2:13 4:15 2:13 4:15 2:13 19:2 2:13 19:2 2:13 20:18 20:18 20:14 20:14 20:14 20:14 20:16 20:15 20:10 20:11 20:10	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] criteria [17] 23:13 23:15 23:17 23:17 23:25 23:25 24:3 24:10 24:12 24:25 29:19 cumulative [1] current [2] 31:2 -D- data [1] 19:6 dates [1] 37:21	5:23 2:19 4:5 36:15 26:17 31:3 23:12 23:16 23:23 24:2 24:12 25:2 10:4 16:6	diagram [1] 16:22 diameter [1] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9 different [18] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9 29:13 29:15 31:7 31:19 31:20 35:11 35:13 36:15 dig [3] 26:1 27:23 29:1 direct [2] 4:7 22:1 direction [1] 12:1 discover [1] 28:17 discussed [2] 29:22 33:10 discussing [1] 2:23 disposal [7] 17:7 17:13 18:17 19:19	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2 10:7 10:9 Eisenhower [1] 7:20 either [4] 29:: 29:25 30:6 36:: electrodes [4] 31:: 31:1 31:3 31:: emphasis [1] 8:10 encourage [1] 35:: encouraging [2] 3:14 5:8 end [2] 10:21 29:: ended [1] 9:5 Energy [4] 2:12 5:20 7:14 25:: Engine [1] 8:7 engineered [1] 25::	3 5 5 1 0 224 225 1 20 0 118
clarification [134:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1] clyde [3] 6:10 7:8 co-located [3] 22:15 22:23 cocktail [1] coombined [1] coming [2] 38:3 comment [10] 5:5 7:9 35:21 36:2 37:14 37:25	23:2 2:14 11:4 35:21 6:18 6:9 22:14 12:17 6:10 7:19 10:5 37:24 3:1 34:22 37:12 38:2	Connecting [1] 11:11 Consent [2] 2:13 4:15 2:13 4:15 2:13 4:15 2:13 4:15 2:13 19:2 2:13 20:18 20:18 20:18 20:14 20:18 26:14 20:18 26:14 20:10 20:11 20:20 20:20 20:10 20:11 20:21 20:11 20:22 20:22 20:25:20 20:25:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:20 20:	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] criteria [17] 23:13 23:15 23:17 23:17 23:25 23:25 24:3 24:10 24:12 24:25 29:19 cumulative [1] current [2] 31:2 -D- data [1] 19:6 dates [1] 37:21 Dave [3] 6:3	5:23 2:19 4:5 36:15 26:17 31:3 23:12 23:16 23:23 24:2 24:12 25:2	diagram [1] 16:22 diameter [1] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9 different [18] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9 29:13 29:15 31:7 31:19 31:20 35:11 35:13 36:15 dig [3] 26:1 27:23 29:1 direct [2] 4:7 22:1 direction [1] 12:1 discover [1] 28:17 discussed [2] 29:22 33:10 discussing [1] 2:23 disposal [7] 17:7 17:13 18:17 19:19 20:16 25:25 28:2	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2 10:7 10:9 Eisenhower [1] 7:20 either [4] 29:2 29:25 30:6 36:: electrodes [4] 31:: 31:1 31:3 31:: emphasis [1] 8:10 encourage [1] 35:: encouraging [2] 3:14 5:8 end [2] 10:21 29:: ended [1] 9:5 Energy [4] 2:12 5:20 7:14 25:: Engine [1] 8:7	3 5 5 1 0 224 225 1 1 20 0 118
clarification [134:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1] closely [1] closely [1] cloyde [3] 6:10 7:8 co-located [3] 22:15 22:23 cocktail [1] cooktail [1] combined [1] coming [2] 38:3 comment [10] 5:5 7:9 35:21 36:2 37:14 37:25 comments [16] 3:17 3:18	23:2 2:14 11:4 35:21 6:18 6:9 22:14 12:17 6:10 7:19 10:5 37:24 3:1 34:22 37:12 38:2	Connecting [1] 11:11 Consent [2] 2:13 4:15 conservative [1] 19:2 consider [1] 32:18 consisted [1] 14:14 construction [2] 10:18 26:14 contain [1] 25:22 containment [2] 25:20 25:20 contains [1] 38:15 contaminant [3] 10:23 20:10 20:11 contaminants [6] 17:2 17:3 19:5 19:6 20:3 20:4 contaminated [26] 10:10 10:11 11:20 11:24 12:10 14:14 16:7 16:12 16:20 16:25 18:1 20:8 21:19 24:18 24:20 24:20 25:24 26:1 26:5 26:8	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] criteria [17] 23:13 23:15 23:17 23:17 23:25 23:25 24:3 24:10 24:12 24:25 29:19 cumulative [1] current [2] 31:2 -D- data [1] 19:6 dates [1] 37:21 Dave [3] 6:3 20:23	5:23 2:19 4:5 36:15 26:17 31:3 23:12 23:16 23:23 24:2 24:12 25:2 10:4 16:6	diagram [1] 16:22 diameter [1] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9 different [18] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9 29:13 29:15 31:7 31:19 31:20 35:11 35:13 36:15 dig [3] 26:1 27:23 29:1 direct [2] 4:7 22:1 direction [1] 12:1 discover [1] 28:17 discussed [2] 29:22 33:10 discussing [1] 2:23 disposal [7] 17:7 17:13 18:17 19:19 20:16 25:25 28:2 dispose [6] 26:2	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2 10:7 10:9 Eisenhower [1] 7:20 either [4] 29:: 29:25 30:6 36:: electrodes [4] 31:: 31:1 31:3 31:: emphasis [1] 8:10 encourage [1] 35:: encouraging [2] 3:14 5:8 end [2] 10:21 29:: ended [1] 9:5 Energy [4] 2:1: 5:20 7:14 25:: Engine [1] 8:7 engineered [1] 25:: ENGINEERING 1:1	3 5 5 1 0 24 25 1 20 0 118 14 5 115 21
clarification [134:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1] closely [1] closely [2] 6:10 7:8 co-located [3] 22:15 22:23 cocktail [1] coombined [1] coming [2] 38:3 comment [10] 5:5 7:9 35:21 36:2 37:14 37:25 comments [16] 3:17 3:18 3:22 5:5	23:2 2:14 11:4 35:21 6:18 6:9 22:14 12:17 6:10 7:19 10:5 37:24 3:1 34:22 37:12 38:2 3:16 3:20 5:10	Connecting [1] 11:11 Consent [2] 2:13 4:15 2:13 4:15 2:13 4:15 2:13 4:15 2:14 19:2 2:18 consider [1] 32:18 consisted [1] 14:14 construction [2] 10:18 26:14 contain [1] 25:22 containment [2] 25:20 25:20 contains [1] 38:15 contaminant [3] 10:23 20:10 20:11 contaminants [6] 17:2 17:3 19:5 19:6 20:3 20:4 contaminated [26] 10:10 10:11 11:20 11:24 12:10 14:14 16:7 16:12 16:20 16:20 16:25 18:1 20:8 21:19 24:18 24:20 24:20 25:24 26:1 26:5 26:8 27:5 28:5 30:14 30:15 32:12	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] criteria [17] 23:13 23:15 23:17 23:17 23:25 23:25 24:3 24:10 24:12 24:25 29:19 cumulative [1] current [2] 31:2 -D- data [1] 19:6 dates [1] 37:21 Dave [3] 6:3 20:23 Dave's [1]	5:23 2:19 4:5 36:15 26:17 31:3 23:12 23:16 23:23 24:2 24:12 25:2 10:4 16:6	diagram [1] 16:22 diameter [1] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9 different [18] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9 29:13 29:15 31:7 31:19 31:20 35:11 35:13 36:15 dig [3] 26:1 27:23 29:1 direct [2] 4:7 22:1 direction [1] 12:1 discover [1] 28:17 discussed [2] 29:22 33:10 discussing [1] 2:23 disposal [7] 17:7 17:13 18:17 19:19 20:16 25:25 28:2 dispose [6] 26:2 27:6 27:24 29:1	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2 10:7 10:9 Eisenhower [1] 7:20 either [4] 29:: 29:25 30:6 36:: electrodes [4] 31:: 31:1 31:3 31:: emphasis [1] 8:10 encourage [1] 35:: encouraging [2] 3:14 5:8 end [2] 10:21 29:: ended [1] 9:5 Energy [4] 2:1: 5:20 7:14 25:: Engine [1] 8:7 engineered [1] 25:: ENGINEERING	3 5 5 1 0 224 225 1 220 0 118 14 5 115 21
clarification [134:4 clean [1] clean-up [1] cleaned [2] 14:4 clear [1] 5:2 clearly [1] closely [1] closely [1] closely [2] 6:10 7:8 co-located [3] 22:15 22:23 cocktail [1] cook [2] 6:17 Cold [2] 2:10 combined [1] coming [2] 38:3 comment [10] 5:5 7:9 35:21 36:2 37:14 37:25 comments [16] 3:17 3:18	23:2 2:14 11:4 35:21 6:18 6:9 22:14 12:17 6:10 7:19 10:5 37:24 3:1 34:22 37:12 38:2 3:16 3:20	Connecting [1] 11:11 Consent [2] 2:13 4:15 2:13 4:15 2:13 4:15 2:13 4:15 2:13 19:2 2:13 19:2 2:18 consider [1] 32:18 consisted [1] 14:14 construction [2] 10:18 26:14 contain [1] 25:22 containment [2] 25:20 25:20 contains [1] 38:15 contaminant [3] 10:23 20:10 20:11 contaminants [6] 17:2 17:3 19:5 19:6 20:3 20:4 contaminated [26] 10:10 10:11 11:20 11:24 12:10 14:14 16:7 16:12 16:20 16:20 16:25 18:1 20:8 21:19 24:18 24:20 24:20 25:24 26:1 26:5 26:8 27:5 28:5 30:14	county [2] 38:7 couple [3] 5:24 17:6 course [3] 17:11 18:25 court [2] 4:1 covered [2] 36:15 create [1] criteria [17] 23:13 23:15 23:17 23:17 23:25 23:25 24:3 24:10 24:12 24:25 29:19 cumulative [1] current [2] 31:2 -D- data [1] 19:6 dates [1] 37:21 Dave [3] 6:3 20:23	5:23 2:19 4:5 36:15 26:17 31:3 23:12 23:16 23:23 24:2 24:12 25:2 10:4 16:6	diagram [1] 16:22 diameter [1] 33:5 diatomaceous [2] 13:4 32:19 diesel [7] 11:9 11:9 11:14 17:14 17:14 19:4 27:9 different [18] 16:4 20:3 21:15 22:23 23:9 24:3 24:10 24:22 26:16 29:9 29:13 29:15 31:7 31:19 31:20 35:11 35:13 36:15 dig [3] 26:1 27:23 29:1 direct [2] 4:7 22:1 direction [1] 12:1 discover [1] 28:17 discussed [2] 29:22 33:10 discussing [1] 2:23 disposal [7] 17:7 17:13 18:17 19:19 20:16 25:25 28:2 dispose [6] 26:2	9:22 9:24 15:: 15:25 16:2 effect [3] 10:: 30:16 30:20 effective [1] 24:: effects [3] 8:1: 10:4 20:4 eight [4] 9:16 9:2 10:7 10:9 Bisenhower [1] 7:20 either [4] 29:: either [4] 29:: 31:1 31:3 31:: emphasis [1] 8:10 encourage [1] 35:: encouraging [2] 3:14 5:8 end [2] 10:21 29:: ended [1] 9:5 Energy [4] 2:1: 5:20 7:14 25:: Engine [1] 8:7 engineered [1] 25:: ENGINEERING 1:1 engines [2] 8:8	3 5 5 1 0 224 225 1 220 0 118 14 5 115 21

[Idaho	Falls, Idaho, 2/24/98
environment [6] 9:6 16:18 22:12	fed[1] 15:6	18:14 19:15	hypothetical [1]	investigation [15]
22:21 23:7 23:19		graphite [1] 30:25	16:10	2:25 3:13 3:15
environmental [5]	feed [1] 15:15	great [1] 37:19	-I-	4:19 5:21 6:3 6:6 6:15 7:16
1:2 2:5 2:15	feeds [1] 15:11	greater [3] 20:15 23:1 23:4		9:7 13:23 14:19
6:11 6:13	feels [1] 6:17	1	Idaho [16] 1:1	14:22 15:1 16:3
EPA [6] 4:19 6:19	feet [4] 11:7 11:11	1 2 -	1:17 1:17 1:25 2:1 2:1 2:16	Investigation/Feasibility
7:2 18:10 20:2 20:9	33:4 33:7	ground [2] 33:4 33:7	2:22 5:25 6:10	[7] 1:7 2:8
equal [3] 20:12	fence [3] 25:7	groundwater [6]	12:1 37:18 37:22	2:11 3:11 15:7 15:21 37:17
20:14 20:19	25:9 27:12	9:14 14:6 14:6	38:6 38:10 38:24	investigations [7]
erect [1] 26:18	fencing [1] 26:18	14:7 14:16 14:21	ideas [1] 6:22	2:17 13:15 13:21
Erik [3] 2:3 7:18	few [3] 4:20 4:21	group [10] 5:17	identified [5] 9:11 13:16 14:24 17:2	13:22 13:24 14:21
34:1	11:6	5:18 5:19 6:8 7:15 23:23 24:11	13:16 14:24 17:2 18:10	15:2
essentially [1] 31:4	fill [4] 32:23 32:25 32:25 33:8	24:17 26:7 29:6	IET [1] 8:6	involved [3] 5:21 6:14 36:8
evaluated [3] 16:5	final [2] 1:9 19:22	grouped [1] 10:9	imagine [1] 18:2	Island [1] 8:20
16:16 16:22 evaluation [7] 5:8	first [25] 3:9 10:10	grout [3] 30:9 30:21	immediately [2]	0.20
evaluation [7] 5:8 15:23 15:24 15:25	10:12 11:16 13:20	32:24	25:1 29:20	-J-
23:12 23:13 28:10	14:12 16:4 17:5	grout-like[1] 30:9	impact[1] 9:25	January [1] 35:11
event[1] 38:19	17:20 19:24 21:9	grouting [3] 30:8	impacts [1] 20:6	judge [1] 24:1
example [1] 19:9	21:16 21:18 23:14 24:13 24:17 24:25	30:17 32:9	implement [2] 24:7	Jan 44:1
excavate [3] 27:4	26:7 26:10 27:20	guess [3] 34:21 36:13 37:13	24:8	-K-
27:23 28:20	29:8 29:18 31:9	Guides [1] 4:10	importantly [1] 6:20	
excavation[3] 25:25	34:23 35:6	guys [2] 7:12 36:5	impressions [1] 5:9 inception [1] 7:5	kind [6] 10:8 10:19 13:9 13:17 14:20
29:23 30:3	five [7] 2:17 2:20 12:5 12:9 26:21	3 .50.5	1	35:15
exciting [1] 10:16	28:4 29:11	-H-	الم الم	kinds [1] 12:18
experiments [2] 8:16 20:2	flowing [2] 25:10	H _[1] 38:9	including [2] 17:10 18:15	knows [1] 37:7
explained[1] 31:11	26:19	half [3] 3:3 5:22	incorporate [1] 33:18	
exposure [9] 16:15	Fluid [1] 8:14	9:7	indicates [1] 29:3	
16:17 16:21 17:1	fold [1] 3:20	hand [2] 36:23 38:20	indication [1] 22:8	laboratory [2] 1:2
18:1 19:15 20:5 20:7 22:1	followed[1] 13:18	hanger [4] 8:4	indications [2] 28:8	30:19
exposures [1] 20:12	Following [1] 4:23	8:13 8:24 8:25	28:9	Laboratory-West [3] 2:25 4:13 35:16
expression [1] 36:18	foot[1] 33:5	hard[1] 37:7	individual [1] 16:24	1
extended [1] 3:1	force [1] 37:2	hazard [4] 20:13 20:15 22:4 23:3	INEEL [7] 2:4	land [2] 25:16 36:25 last [12] 2:21 4:6
extends [1] 12:8	foregoing [1] 38:15	20:15 22:4 23:3 hazardous [1] 12:18	14:13 27:7 27:24 29:1 34:16 34:18	22:2 22:13 24:11
0.2.0	form [3] 5:8 37:25	health[11] 6:11	inert [2] 32:24 33:9	24:14 26:3 27:8
-F-	former [1] 8:6	9:17 9:22 10:8	information [2] 15:10	28:1 30:22 32:10 35:11
facilitating [1] 2:6	forward [3] 6:21	15:23 15:25 16:3	20:22	law[1] 23:13
facilities [8] 4:10	6:25 16:1	19:24 20:4 20:6 23:18	ingest [1] 16:20	laws [1] 23:21
9:9 9:9 9:10	found [2] 7:5	hear [2] 4:21 6:22	inhale [1] 16:19	lead [8] 10:22 13:25
22:14 22:15 22:23	20:3	heard [2] 7:20	Initial [1] 8:7	17:10 17:12 19:11
35:14	four [2] 11:7 14:2	32:1	injected [1] 14:10	19:12 21:24 22:1
facility [16] 2:10 2:12 2:24 4:12	fourth[1] 2:10	hearing [2] 38:12	injection [5] 14:8	leading [1] 12:13
4:14 8:7 8:7	free [3] 5:2 32:21 37:24	38:16	14:9 14:11 14:15 14:17	leaked [3] 11:12
8:12 8:14 9:8	fuel [2] 8:20 19:4	heat [2] 31:3 31:22	input [1] 6:21	13:6 22:9
26:11 26:25 27:10	future [6] 5:11	heats [1] 31:21	inside [2] 8:25	leave [3] 30:4 30:11 33:1
27:12 27:25 35:15 fact [1] 4:9	16:8 22:19 28:14	hereby [1] 38:10	27:11	left[2] 11:5 11:14
fairly[1] 7:7	33:17 37:1	high [1] 31:2	instance [1] 16:19	legally[1] 2:13
fall [7] 3:7 3:25		history [2] 7:16	instrumental [1]	less [1] 22:5
18:15 20:13 20:18	-G-	hope [2] 8:1 13:9	6:1	level [12] 10:3
32:8 33:21	gallons[1] 11:3	Hopefully [1] 16:14	intake [1] 20:5	18:6 18:9 18:11
falls [6] 1:17 2:1	garage [1] 8:6	horror [1] 32:1	interest [3] 36:6 37:19 38:19	18:12 18:15 19:9 20:5 20:5 20:9
2:22 18:8 18:18 37:22	glassified[1] 31:6	Hot [2] 8:17 8:21	interesting [2] 8:23	20:13 20:19
far [7] 6:22 13:5	goals [1]21:11	housing [1] 37:7	12:17	levels [2] 19:9
20:25 21:14 29:3	good [3] 6:18 7:7	human [7] 9:17	Interim [1] 14:5	19:21
33:10 37:18	7:22 gradient[1] 14:16	9:22 10:8 15:23	interrupt [1] 5:3	lifetime [1] 17:25
February [2] 1:16	gradient [1] 14:16 graph [3] 18:6	15:25 16:3 23:18		limit [1] 19:10
2:1	Rrehnfal 19:0	human's [1] 16:19	5:15 6:9	limited [10] 25:3

Idano Palis, I		, 				1	1	
25:4 26:17 27:1 27:16	26:22 28:13	25:13 26:3 32:1 32:24	28:9 32:24	N _[2] 38:9 name _[1]	38:9 35:21	occupational [4] 16:5 17:21 18:	perimeter [3] 26:18 27:12	25:7
28:25 29:21	29:22	37:21 37:21	37:22	named [1]	38:13	19:16	period [2]	3:2
liquid [4]	13:5	mcan [1]	27:7	Nancy [2]	1:24	occurring [4] 28:		
32:19 32:20	32:21	means [3]	16:17	38:23	~	28:17 28:18 29:	Derwiewew (T)	25:11
list [1] 17:2	10.45	25:6 30:18		National [4]	1:1	off [8] 11:19 12:	- '''	
listed [2] 29:11	12:18	meet [1] 29:19		2:24 4:13	35:16	27:6 27:6 27: 29:25 30:1 30:		16:19
Lockheed [3]	5:25	meeting [8] 2:6 2:22	1:2 3:8	nationally [1]	37:20	office [1] 6:1		15:12
6:4 6:7	J.4J	4:3 5:9	37:16	natural [3]	28:11	old [2] 8:24 31:	Drawn [n]	13:12
LOFT	8:14	38:5	2. 	28:16 28:18	20.4	Once [2] 7:14 37:	I	12:15
long-term [1]	24:5	meetings [2]	5:11	naturally [1]	29:4	one-in-ten [1] 18:	-	33:3
longer [1]	32:21	35:5		Naval [3] 4:12 35:15	2:24	ones [1] 36:15	pick [4] 21:12	22:9
look [12] 6:25	8:2	melt [2] 31:5	31:25	near [2] 22:16	22:25	ongoing [1] 14:	1	· • •
8:18 9:25	10:4	melting [1]	32:4	never[1]	8:5	open [1] 37:14	picking [1]	33:19
21:17 21:19	23:14	melts [1]	31:4	next [12] 2:19	3:7	operable [1] 9:1	picture [5]	10:16
23:15 26:7 26:21	26:10	MEMBER [6]	34:7	8:13 13:11	3:7 15:19	operation [1] 23:	, 11:15 13:10	26:13
looked [24]	8:15	34:15 34:24 35:9 36:4	35:4	17:9 17:19	19:14	oral [1] 3:17	28:3	
21:6 22:6	22:17	mention [3]	2:16	22:15 23:23	37:4	Order [2] 2:1	pipe [2] 11:11	11:12
23:24 24:11	24:22	5:1 19:3	2.10	37:15		4:15	hrbes [1]	11:13
24:23 25:1	25:2	mentioned [4]	7:8	NF[1] 9:9		organic [2] 17:	15 pit [3] 26:11	26:12
25:19 25:24 29:14 29:15	29:10 29:17	14:4 14:7	15:22	nice [1] 8:6		30:16	20:23	10:20
29:14 29:15 29:18 29:21	29:17 30:2	mercury [16]	10:25	night [2] 35:7	35:8	organics [2] 30:	15 pits [6] 10:15	10:20 19:4
31:7 32:10	33:11	11:3 11:8	14:3	nine [1] 29:17		30:20	21:25	47.7
36:20 37:3		14:5 17:10 17:11 18:18	17:11	non-rad [3]	10:10	OU[9] 9:12 9:1	3 place rs	3:20
looking [7]	6:21	17:11 18:18 20:16 22:3	19:20 22:5	10:13 10:24	10:05	14:6 14:17 14: 14:24 15:1 15:	22:24 25:12	30:11
9:10 21:8 23:9 24:21	22:22	27:3 27:5	27:5	noncancer [2]	19:25	15:15	38:13	
	26:16	met [4] 21:12	23:18	noncarcinoge	nicm	outline [1] 7:1	6 plan [17] 1:7	2:4
Loss [1] 8:14	0.15	24:2 24:25		19:23	[1]	over-filling [1] 13:		3:17 4:14
losses [1] lots [2] 20:2	8:15 20:2	metals [2]	12:18	noncontamina	ated [11	overfilled[1] 12:	19 4:22 6:18	15:9
low-level [1]	20:2 27:19	17:9		27:9	~ *	overview [1] 13:	17 15:11 28:12	33:16
10.4-10.4CI [1]	47:19	method [1]	31:22	none [2] 13:6	22:25		34:5 36:11	38:1
-M-		Michael [3] 20:23 20:25	6:3	nonradiologic	al [2]	-P-	plane [1]	8:5
	0.1	microphone [1]	4.4	24:20 26:8		p.m [2] 1:17 38:	planning [1]	33:20
MIA1 [1]	9:1	middle [2]	26:13	North [20] 2:7 2:9	1:6 3:12	paint [1] 10:18	plans [2] 3:2	2:19
mail [1] 3:21		35:16	20.13	4:9 4:11	3:12 4:18	pardon [1] 36:		
main [1] 12:13	11.0	might [4]	16:6	5:19 6:5	7:3	parking [1] 27:	L Lance (1) 10	37:8
managed [1]	11:2	16:12 16:19	37:6	7:17 7:19	13:17	part [4] 8:2 8:8	(browner (v)	37:8 14:16
management [2 9:3 25:16	2]	mike [1] 35:19		14:9 18:8 27:21 28:20	21:2 34:11	20:7 34:3	PM-2A [8]	11:22
manager [5]	5:18	miles [1]	34:11	35:10	J7.11	particular [2] 7:4	12:22 18:16	
5:20 6:5	6:8	million [4]	19:10	Notary [2]	38:9	36:23	20:18 29:9	29:16
7:15		28:24 29.2	33:14	38:23	-0.7	parts [3] 15:23 16:	I '	
managers [2]	3:13	minute [1]	11:21	nothing [2]	18:22	19:10	polychlorinat	e d [1]
4:25		modifying [2]	24:12	22:21		passed[1] 31:		10.5
manganese [2]	17:10	24:12	•	NOVEMBER	[1]	past [2] 31:18 31:		12:7 17:13
17:12		MONDAY [1]		1:9		pathway [1] 16:	19:17 10:10	20:17
March [3]	3:2	monitor [1]	26:20	nuclear [4]	7:21	pathways [5] 16:	12 28.2 28.4	29:4
37:15 38:21 Mark [8]	5:17	monitoring [1]		7:24 8:3	36:9	16:17 16:21 16: 21:17	pool [1] 8:12	
7:13 7:15	3:17 13:14	month [2] 35:11	2:22	nuclide [1] number [2]	27:19	PCBs [2] 12:		10:1
14:4 14:7	15:22	Moscow [1]	35:8	36:7	16:24	17:18	10:3	
32:15		most [6] 6:19	35:8 8:22	numbers [1]	17:23	Pennsylvania [1]	portion [2]	16:9
marker [2]	25:11	11:4 20:4	8:22 36:6			8:20	34:13	
25:12		36:11	20.0	-0-		people [3] 3:1	4 portions [1]	4:2
Martin [2] 6:4	5:25	move [3]	16:12	object [1]	31:6	35:4 37:14	position [1]	32:8
material [3]	30:8	16:18 34:21		objective [2]	31:0 21:11	per [2] 19:10 24:		
32:24 33:9	30.0	moving [3]	11:1	21:20	21;11	perform[1] 28:		12:10
Matt [3] 6:12	6:12	14:16 15:5		objectives [2]	20:22	performed[1] 15:	20	21
7:1				21:10		performing [2] 30:	19 postage-paid [3:19 38:1	4 J
may [11] 24:4	24:7					31:15	5,17 50.1	
		<u> </u>		l		<u>I</u>	<u> </u>	

potential - site

				Falls, Ídaho, 2/24/9
	public [14] 1:2	record [13] 3:23	19:11 19:11 19:15	scheduled [1] 3:25
13:16 17:4	2:21 3:1 5:11 6:21 6:23 7:9	3:24 5:6 5:14 9:12 14:24 15:14	19:17	Schwartz [2] 1:24
powered[1] 7:21	7:10 15:13 34:22	15:15 33:18 33:20	residual [3] 11:8 11:14 15:4	38:23
practices [1] 9:4	36:2 37:16 38:10	33:22 35:23 38:16		screen [1] 11:19
predicts [1] 17:4	38:23	recording [1] 4:2	resource [1] 4:8	seal[1] 38:20
	public's [1] 24:15	Records [1] 3:4	respect [1] 34:13	Seattle [2] 6:14
26.23 27.1 27.3	pulling [1] 14:14	reduce [1] 21:21	responded [1] 3:22	7:2
27:15 27:22 31:8]	pumped [2] 13:3	reduced [1] 38:14	response [2] 29:10 34:25	second [7] 3:12 4:16 16:9 23:20
32:5 32:22 33:8	32:17	reducing [1] 17:5	Responsiveness [1]	25:2 26:24 29:9
	purpose [1] 3:8	referring [1] 35:2	3:23	section [1] 3:23
preliminary [3] 13:21 13:22 13:24	put [6] 10:20 25:11 28:22 30:8 32:16	refers [1] 5:18	rest[1] 34:25	see [11] 2:9 6:23
present [5] 3:10	32:20	Region [1] 6:13	restoration[1] 2:5	8:1 16:14 18:14
20:21 20:24 21:7	putting [1] 30:25	regulators [1] 15:13	restrictions [1] 25:14	18:18 26:21 29:12
26:6	P	regulatory [1] 19:10	result [5] 13:15	29:17 30:22 33:13
presentation [4]	-0-	relations [2] 2:4	17:1 17:25 18:4	send [3] 5:13 35:22 37:24
2:9 5:1 21:3	Quality [1] 6:12	~ 4:14	25:13	September [1] 39:1
1	questions [5] 3:14	release [7] 9:10	results [4] 3:10 17:20 17:21 19:23	session [4] 4:24
presentations [1]	4:24 34:3 34:20	13:16 13:19 13:24 22:11 23:7 34:13	1	5:4 5:5 34:22
presented [2] 21:3	35:17	22:11 23:7 34:13 releases [2] 9:5	1	several[5] 17:9
1 33:12	quit [1] 25:15	22:20	RI/FS [2] 15:10	18:15 19:17 21:15
president [2] 7:20	quite [2] 29:22 31:17	releasing [1] 2:18	right [12] 8:13	37:2
	quotient [5] 20:14	remaining [4] 9:16	11:4 14:18 18:5	shape [1] 5:10
pretty [2] 37:8	20:15 20:19 22:4	9:18 11:8 13:5	18:11 20:13 27:21	Shaw (s) 5:17
37:10	23:4	remains [1] 37:14	28:13 30:12 30:17 34:15 36:22	5:23 7:13 7:18 34:10 34:17 35:6
prevent [4] 22:1	-R-	remedial [18] 1:6	risk [42] 6:2 9:17	35:13
25:18 25:23 26:18		2:8 2:11 14:17	9:18 9:22 9:24	sheet [2] 3:19 5:12
	R _[1] 38:9	14:22 14:23 15:7 15:16 15:16 15:21	9:25 10:8 13:13	sheets [1] 4:9
	rad [4] 10:11 11:15	20:22 20:23 21:6	13:23 15:3 15:20	shifted [1] 8:10
1	12:6 12:18 radiation [1] 26:9	21:10 21:11 33:24	15:22 16:1 16:2 16:5 16:6 16:9	Shop [1] 8:21
I -	radiation [1] 26:9 radiological [3] 21:19	33:24 37:17	16:16 16:24 17:20	Shops [1] 8:17
problems [1] 31:23	24:19 27:19	remediation [3] 3:6 3:11 28:22	17:22 17:23 17:23	short [1] 34:23
	radionuclides [2]	remedies [8] 24:3	18:5 18:7 18:8	shorthand[1] 38:13
13:18 24:5 31:11	17:6 30:14	24:10 24:22 24:23	18:11 18:14 18:19 19:1 19:9 19:18	Shortly [1] 4:17
33:24	radium [8] 21:23	26:16 29:13 29:16	19:21 19:22 19:25	show [6] 17:7 17:13
1 2-1	28:6 28:8 28:9	30:2	19:25 20:7 20:20	17:18 18:5 19:18
produce [1] 15:14	28:11 28:16 28:18 29:4	remedy [9] 21:13	21:3 21:22 21:22 23:1	32:6 showed [1] 19:21
produced [2] 14:8	radium-226 [2] 12:11	22:9 23:19 23:20 24:1 25:4 25:23	risks [6] 15:2 16:11	showing [2] 18:7
1 20.0	17:7	26:22 31:14	16:22 17:5 18:21	20:1
program [4] 2:5 7:24 8:3 8:9	railroad [2] 11:3	remember [4] 8:19	18:24	shown [1] 16:21
project [8] 3:12	27:2	24:19 28:3 32:15	road [3] 12:5 12:25	shows [5] 11:15
4:24 5:17 6:5 I	range [1] 18:19	remind [1] 37:14	27:21	17:12 17:23 19:23
7:4 8:23 9:14 1	reached [1] 7:6	removal [4] 11:6	roadway [1] 27:14	19:25
	reactor[s] 8:10	12:4 14:2 14:12	room [1] 4:9	side [1] 31:25
	8:11 8:16 26:11 27:10	remove [4] 26:3 27:23 28:21 32:12	roughly [2] 3:3	sign [2] 3:4 5:12
	27:10 reactors [4] 2:24	27:23 28:21 32:12 removed [1] 11:13	5:21 rumor [1] 7:20	signed[1] 3:25
	4:12 8:13 35:15	removing [1] 29:23	rumor [1] 7:20 Russians [1] 7:21	signs [3] 25:7 25:9
	read [3] 29:12 34:5	reporter [2] 4:1	Kussians [1] /;21	26:18 similar [2] 19:16
3:17 3:18 4:11	37:9	4:6	-S-	31111111
4:22 15:9 15:11 r	real[1] 30:15	Reporting [1] 1:24		Simpson [11] 2:3
1 38:1	reason [1] 36:24	representatives [2]	S _[1] 38:9 sampling _[3] 28:7	2:3 5:24 7:12
nronosing (1) 35:9	receptors [1] 10:2	4:20 4:25	sampling [3] 28:7 28:15 29:3	34:2 34:12 34:20
Propulsion on 7:24	recommendation [1]	required [3] 21:12	sand[1] 32:25	35:2 35:14 35:17 37:11
9.3	28:13	25:11 28:14	Saw [2] 26:12 27:2	site [57] 10:1 10:24
	recommended [1] 9:19	research [4] 8:11 8:11 26:11 27:10	scale [1] 24:1	10:25 11:9 11:10
Protection [2] 2:15	J.17			
		resident m 16-11	scenario (7) 16:5	12:6 13:1 14:3
	recommending [1]	resident [1] 16:11 residential [5] 16:10	scenario [7] 16:5 16:11 17:22 18:20 19:15 19:16 19:17	12:0 13:1 14:3 14:3 17:11 17:15 18:1 18:2 18:3

10010		Idano, 2	424170							
18:5	18:5	18:18	29:25 30:24	31:4	17:19		38:3		7:6 9:7	9:17
18:23	19:19	19:20	solution [1]	7:7	summarized [1	•	thereafter [1]	38:14	9:22 10:2	10:12
20:11	20:14	20:16				J			11:12 13:2	15:22
21:22	21:23	21:24	solvents [2]	10:19	20:20		therein [1]	38:13	16:4 19:4	19:24
			17:16		summarizes [1]	1 15:9	thinks [1]	6:24		
22:3	22:5	25:14	sometime [3]	3:5	summary [2]	3:23			23:15 23:18	24:25
26:23	27:2	27:3		3.3	aummar y [2]	3.23	Third [1]	3:16	27:11 27:17	27:18
27:4	27:5	27:6	3:25 17:25		19:22		Thirty-one [2]	9:11	type [3] 31:14	31:18
27:6	27:8	27:9	soon [1] 33:22		Summer [1]	3:6	9:14		38:14	
27:15	27:22	28:5	south [2]	11:18	support [1]	26:25	_ ·	7.00	1	04.00
28:8	28:10	28:15	27:20	11.10			thought [3]	7:22	types [1]	24:22
29:24	29:25	29:25			surface [1]	33:7	36 :18 37:9		l	
30:1	30:6	30:6	space [1]	33:1	surrounding [1	1	three [5] 9:7	10:9	-U-	
31:18	32:13	35:12	speak [1]	35:21	30:5	•	12:14 17:19	19:3		
					50.5		three-fold m		unaccept [1]	18:13
35:16	36:7	36:23	speaker[1]	5:3				3:9	unacceptable	
37:3			specifically [3]	14:2	-T-		Three-mile [1]	8:19	9:17 9:18	9:21
site-wi	ide (2)	9:24	14:21 17:14		T 20.0		threshold [4]	23:16		
16:2			specified [1]	23:13	T [1] 38:9		23:16 24:25		10:7 17:5	19:18
sites [61		0.11			table [2] 4:8	27:20	1	29:19	19:21 20:16	
		9:11	spill [15]	10:25	table-type [1]		through [9]	9:8	under [5]	2:12
9:15	9:16	9:21	11:2 11:10	11:22	Lauto-type [1]	8:13	10:7 13:11	14:11	2:18 16:2	19:16
9:22	10:2	10:5	12:23 14:3	17:11	TAN [9] 8:17	9:8	25:6 28:10	29:12	33:4	
10:7	10:9	10:12	17:15 18:18	19:20	9:14 10:17	14:9	31:3 36:10			
10:13	11:16	12:12	20:16 22:3	27:3	17:7 21:2	26:25		45.0	underground [1]
12:21	13:16	13:19	27:9 27:13	±1.J	36:10		Thursday [1]	35:8	29:7	
13:24	14:1	15:17				0.1	Tim [1] 6:7		understands [1	1
15:18	16:7	16:12	spills [1]	13:8	tank [23] 8:25	9:1	times [1]	22:23	34:6	
16:25	17:8	17:17	8pot[1] 20:14		10:12 11:10	11:10				
				2.7	11:12 11:22	12:12	today's [1]	9:5	unit [1] 9:13	
17:18	18:15	18:16	spring [1]	3:7	12:16 12:21	17:8	tomorrow [1]	35:7	unless [1]	34:22
19:4	19:4	19:5	square [1]	34:10	17:17 17:18	19:19	tonight [13]	2:6		9:5
19:17	20:8	21:4	SS [1] 38:6		22:11 22:11	30:23	Comenc [13]		up [28] 8:2	
21:17	21:19	21:20			31:4 31:4	31:12	4:2 4:5	5:9	11:4 13:5	13:11
21:21	22:6	22:15	stainless [1]	12:15	32:4 32:14	32:23	9:21 14:20	21:1	14:4 16:23	17:7
22:16	22:17	22:19	standard [2]	19:12			21:14 24:16	29.22	17:12 17:13	17:18
22:25	22:25	23:5	19:13		tanker [2]	11:24	33:10 34:3	37:24	18:5 21:4	21:14
23:6	24:17	24:18	1		12:24		tonight's [1]	3:8	23:2 23:12	26:1
24:20	24:21	24:21	standards [1]	9:5	tanks [38]	11:12			27:23 29:1	29:2
			standing [1]	26:19	11:22 11:24	12:14	too [5] 4:5	5:14	29:14 31:8	32:20
25:24	26:5	26:8	start [1] 33:23	-	12:16 12:22	13:3	7:23 10:2	35:11	32:23 32:25	32:25
26:9	27:17	27:18					took[1] 11:7			J4.4J
29:6	34:14	34:18	started [8]	7:19	13:6 18:16	20:18			33:9 34:19	
sits [3]	11:16	12:14	7:24 7:25	9:6	22:10 29:7	29:8	top [4] 13:7	15:3	used [1] 31:22	
34:18	11,10	12.1	13:20 21:8	22:22	29:9 29:11	29:17	26:19 31:22		using (2)	4:4
			23:9		29:23 30:4	30:4	total [1] 33:13		5:10	7,7
8itu [6]	30:7	30:23	i	0.16	30:6 30:9	30:13	· · · · · · · · · · · · · · · · · · ·		3:10	
30:24	31:10	31:16	state (13)	2:16	30:24 31:11	31:13	tour[1] 10:8			
32:14			4:19 6:10	6:17	31:13 31:24	32:2	toxicity [1]	19:6	-v-	
Six [1]	15:19		15:13 23:22	24:13	32:9 32:11	32:13	Track [2]	13:22		
			35:1 35:20	37:20				13.44	V-1 [1] 12:14	
size [1]			38:6 38:10	38:24	32:16 32:16	32:20	13:22		V-9 [2] 12:14	12:16
skill [1]			statements [3]		32:25 33:3	33:3	tracks [3]	11:3		
		16.15		7.20	33:5		11:7 27:2		V-tank [2]	18:16
slide [7]		16:15	4:21 6:16		task [1] 37:2		transcript [1]	38:15	19:18	
	19:14	19:22	steel [2] 12:16	13:3	tear[1] 23:6				V-Tanks [10]	12:13
19:25			still [5] 8:22	11:8			transferring [2]	11:23	20:17 22:7	22:7
slides	[3]	15:19	11:13 12:5	32:18	technology [7]	5:25	12:24		22:8 29:8	29:15
17:19					6:4 31:19	31:21	treat [2] 26:4	30:3	31:9 31:10	32:8
		14.14	stone [1]	6:24	31:24 32:3	32:7	treatability [4]		1	J4.0
sludge		14:14	storage [1]	29:7	test [27] 1:6	2:7			van [1] 26:12	
small [10:2	stored [1]	8:22		4:9	31:15 32:3	32:6	variations [2]	29:13
12:5	34:13				2:9 3:12		treating [1]	29:24	29:16	
soak [2]		32:20	stories [1]	32:1	4:11 4:18	5:19	treatment [4]	30:6	•	25.6
			straight [1]	12:1	6:5 7:3	7:17			various [1]	25:6
SOil [30]		10:24			7:18 8:7	8:8	30:7 31:14	32:14	verify [2]	28:16
11:16	11:18	11:25	Street [1]	1:24	8:12 8:14	13:16	triangular [1]	11:17	29:5	
12:6	12:20	13:1	study [11]	1:7	14:9 18:8	21:2	truck [2] 11:24	12:24	vitrification [
13:7	16:20	18:16	2:8 2:12	3:11	26:11 27:10	27:21				
19:20	20:17	21:17	15:8 15:21	30:18	28:19 32:3	34:11	true [2] 2:10	38:15	30:23 30:25	31:16
21:18	21:20	24:18	31:15 32:3	32:6	35:10		try [2] 4:5	36:5	vitrify [1]	31:10
			37:17	J2.U			TSF-07[1]	12:7	void [1] 33:1	
25:24	26:2	26:5			tested [1]	8:12			AO10 [1] 22:1	
27:17	27:20	28:2	stuff [4] 10:19	10:21	testing [2]	30:19	turn [2] 7:13	33:25		
29:1	29:23	30:3	12:19 12:25		31:17		turntable [2]	11:18	-w-	
30:5	31:13	32:12	submit [1]	3:18		07.11	11:19			
32:13					thank [2]	37:11		10.10	W [1] 38:9	
soils [8]	1 10:11	10:11	successful [1]		37:23		turpentine [1]	10:19	WAG [3]	13:15
27:5	27:23	27:24	summarize [2]	15:20	thanks (2)	7:12	two [20] 3:3	3:5	16:2 17:5	
27.5	21.43	41.47							10.2 17.3	
			<u> </u>		1		1		I	

walk [2] 18:25 24:24 War [2] 2:10 7:19 warn [2] 25:8 25:12 waste [9] 5:17 5:18 5:19 6:7 7:14 9:3 10:18 12:17 14:10 water [6] 8:11 8:15 25:10 26:10 26:19 27:10 weeks [1] 3:3 Welfare [1] 6:11 wells [1] 14:8 White [1] 35:24 whole [2] 12:6 37:3 Wilkening [5] 6:12 7:1 7:1 wind [1] 11:25 within [2] 13:3 37:19 WITNESS [1] 38:20 word [1] 36:13 words [3] 24:4 25:22 25:25 worked [2] 6:18 36:24 worker [3] 16:6 16:6 18:3 worst [1] 18:7 wound [1] 18:7					Idaho	Falls, Idaho, 2/24/98
warte [1] 2558 25:12 waste [9] 5:17 5:18 5:19 6:7 7:14 9:3 10:18 12:17 14:10 85 25:10 26:10 26:19 27:10 26:19 27:10 26:19 27:10 26:19 27:10 26:19 27:10 26:19 27:10 26:19 27:10 26:19 27:10 26:19 27:10 26:19 27:10 26:19 27:10 26:19 27:10 26:19 27:10 26:19 27:10 26:10 25:24 Whole [1] 3:24 Whole [1] 3:24 White [1] 12:5 wind [1	walk [2] 18:25	24:24				
Waste						
5.18 5.19 6.7 7.14 9.3 10:18 8.15 25:10 26:10 8.15 25:10 26:10 8.15 25:10 26:10 8.16 25:10 26:10 8.17 25:10 26:10 8.18 Welfare [1] 6.11 8.18 Welfare [1] 14:8 White [1] 35:24 Whole [2] 12:6 37:3 37:3 Wilkening [3] 6.12 7:1 7:1 7:1 7:1 Wind [1] 11:25 Words [3] 24:4 25:22 25:25 Worked [2] 24:4 25:22 25:25 Worked [2] 6.18 36:24 Worder [3] 16:6 16:6 18:3 Words [1] 32:5 Worst [1] 18:7 Wound [1] 38:9 Vear [1] 3:0 Writte [1] 3:0 Writte [1] 3:0 Writte [1] 3:0 Writte [1] 3:0 Writte [1] 3:0 Words [1] 3:18 6:24 ——Y— Y[1] 38:9 Vear [1] 3:7 Siz [1] 2:0 Vear [1] 6:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 Vet [1] 6:24 ——Z—						
7:14 9:3 10:18 water (s) 8:11 8:15 25:10 26:10 26:19 27:10 weeks (t) 3:3 Welfare (t) 6:11 wells (t) 14:8 White (t) 35:24 whole (t) 12:6 37:3 Wilkening (t) 6:12 7:1 7:1 7:1 7:1 7:1 WITNESS (t) 38:20 word (t) 36:13 words (t) 6:18 36:24 worker (t) 16:6 18:3 worker (t) 8:9 worker (t) 8:9 worker (t) 18:7 wound (t) 8:9 written (t) 3:18 6:24 -y- Y(t) 38:9 year (t) 37: Year (t) 16:7 16:13 26:21 20:22 25:25 year (t) 37:3 37:5 37:6 yet (t) 6:24 -Z-	waste [9]					
12:17 14:10	7:14 9:3	0:7 10:18				
8:15 25:10 26:10 26:19 27:10 weekstp1 3:3 Welfaretp1 6:11 weekstp1 3:24 White (1) 35:24 whole (2) 12:6 37:3 Wilkening [3] 6:12 7:1 7:1 wind [1] 11:25 within [2] 38:20 word [1] 36:13 words [3] 24:4 25:22 25:25 worket [4] 16:6 16:6 18:3 workstp1 32:5 workstp1 32:5 workstp1 18:7 wound [1] 8:9 write (1] 3:20 write (1] 3:20 write (1] 3:20 system of (1) 3:25 system of (1) 3:25 system of (1) 3:25 system of (1) 3:26						
26:19 27:10 weeks (t) 3:3 Welfare (t) 6:11 wells (t) 14:8 White (t) 35:24 whole (r) 12:6 37:3 Wilkening (r) 6:12 7:1 7:1 wind (t) 11:25 within (r) 13:3 37:19 WOTMESS (t) 38:20 words (r) 48:25:22 25:25 worked (r) 6:18 36:24 worked (r) 6:18 36:24 worked (r) 18:7 works (r) 18:9 works (r) 18:9 works (r) 18:9 work (r) 18:9 work (r) 26:24 26:24 25:22 5:25 9:3 9:3 9:7 11:6 16:7 16:13 36:24 9:3 9:7 11:6 16:7 16:13 36:7 37:3 37:5 37:6 yet (t) 6:24Z-	water [6]	8:11				
Welfare [1] 6:11 Wells [1] 14:8 White [1] 35:24 whole [2] 12:6 37:3 Wilkening [3] 6:12 7:1 7:1 7:1 7:1 7:1 7:1 7:1 Wind [1] 11:25 within [2] 33:20 word [1] 36:13 word [1] 36:13 words [2] 24:4 25:22 25:25 worked [3] 6:18 36:24 worked [3] 3:5 works [1] 32:5 works [1] 18:7 wound [1] 8:9 write [1] 3:20 write [1] 3:20 write [1] 3:20 syrite [1] 6:24Z-		26:10				
Welfare (t) 6:11 wells (t) 14:8 White (t) 35:24 whole (z) 12:6 37:3 37:3 Wilkening (z) 6:12 7:1 7:1 wind (t) 11:25 within (z) 13:3 37:19 WITNESS (t) 38:20 words (z) 24:4 25:22 25:25 worked (z) 6:18 36:24 works (t) 16:6 16:6 18:3 words (t) 8:3 words (t) 8:3 words (t) 8:3 words (t) 18:7 words (t) 8:9 worte (t) 13:00 witten (z) 3:18 6:24 -Y- Y(t) 38:9 year (q) 3.7 5:21 26:20 33:21 years (q) 2-20 5:23 5:24 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 yet (t) 6:24 -Z-		2.2				
wells [ii] 14:8 White [ii] 35:24 whole [2i] 12:6 37:3 Wilkening [p] 6:12 7:1 7:1 Wind[ii] 11:25 Within [2i] 13:3 37:19 WITNESS [ii] 38:20 Word [ii] 36:13 Words [ii] 25:22 S2:22 S2:25 Worked [ii] 6:18 36:24 Works [ii] 16:6 16:6 18:3 Words [ii] 32:5 Worst [ii] 18:7 Wound [ii] 8:9 Wittin [ii] 20 Writtin [ii] 3:8 -Y- Y [iii] 38:9 year [4i] 3:7 S2:1 S2:24 S2:25 S2:25 S2:24 S2:25 S2:25 S2:24 S2:25						
White [1]						
whole [2] 12.6 37:3 7:1						
37:3 Wilkening [3] 6:12 7:1 7:1 wind [1] 11:25 within [2] 13:3 37:19 WITNESS [1] 38:20 words [3] 24:4 25:22 25:25 25:23 worked [3] 16:6 16:6 18:3 works [1] 18:7 worst [1] 18:7 worst [1] 18:7 wound [1] 8:9 written [2] 3:18 6:24 -Y- Y [1] 38:9 year [4] 3.7 5:21 26:20 33:21 years [4] 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [1] 6:24 -Z-						
7:1 7:1 wind[ii] 11:25 within[ii] 13:3 37:19 WITNESS[ii] 38:20 word[ii] 36:13 words[ii] 24:4 25:22 25:25 worked[ii] 6:6 16:6 18:3 works[ii] 32:5 worst[ii] 18:7 wound[ii] 8:9 write[ii] 3:20 written[ii] 3:18 6:24 -Y- Y[ii] 38:9 -Y- Y[ii] 38:9 26:20 33:21 year[ii] 3:7 5:21 26:20 33:21 year[ii] 2:20 5:23 5:24 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet[ii] 6:24 -Z-	37:3					
within [2] 13:3 37:19 WITNESS [1] 38:20 word [1] 36:13 words [2] 24:4 25:22 25:25 worked [2] 6:18 36:24 worker [3] 16:6 16:6 18:3 worst [1] 18:7 wound [1] 8:9 write [1] 3:20 write [1] 3:20 write [2] 3:18 6:24 Y- Y [1] 38:9 year [4] 3.7 5:21 years [14] 2:20 5:23 5:24 9:3 9.7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [1] 6:24 Z-	Wilkening [3]	6:12				
within [2] 13:3 37:19 word [1] 36:13 words [3] 24:4 25:22 25:25 worked [2] 6:18 36:24 worker [9] 16:6 16:6 18:3 works [1] 32:5 worst [1] 18:7 wound [1] 8:9 write [1] 3:20 write [1] 3:20 write [2] 3:18 6:24 -Y- Y [1] 38:9 year [4] 3:7 5:21 26:20 33:21 year [14] 2:20 5:23 5:24 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [1] 6:24 -Z-						
37:19 WITNESS [1] 38:20 word [1] 36:13 words [3] 24:4 25:22 25:25 worker [3] 16:6 18:3 works [1] 32:5 worst [1] 18:7 wound [1] 8:9 write [1] 3:0 write [1] 3:18 6:24 -Y- Y [1] 38:9 year [4] 3:7 5:21 26:20 33:21 years [14] 2:20 5:23 5:24 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [1] 6:24		10.0		:		
WITNESS [1] 38:20 word [1] 36:13 words [3] 24:4 25:22 25:25 worked [2] 6:18 36:24 works [1] 16:6 16:6 18:3 worst [1] 18:7 wound [1] 8:9 writen [2] 3:18 6:24 -Y- Y [1] 38:9 year [4] 3:7 5:21 26:20 33:21 years [14] 2:20 5:23 5:24 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [1] 6:24	37:19	13:3				
word [1] 36:13 words [3]		38:20				
words [3] 24:4 25:22 25:25 worked [2] 6:18 36:24 36:24 works [1] 16:6 16:6 18:3 worst [1] 18:7 wound [1] 8:9 writte [1] 3:20 writte [1] 3:18 6:24 -Y- Y[1] 38:9 year [4] 3:7 26:20 33:21 years [14] 2:20 5:23 5:24 9:7 11:6 16:7 16:13 16:13 26:21 36:7 37:3 37:6 yet [1] yet [1] 6:24						
worked [2] 6:18 36:24 worker [3] 16:6 16:6 18:3 works [1] 32:5 worst [1] 18:7 wound [1] 8:9 write [1] 3:20 write [1] 3:20 -Y- Y [1] 38:9 year [4] 3:7 5:21 26:20 33:21 years [14] 2:20 5:23 5:24 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [1] 6:24 -Z-	words [3]	24:4				
36:24 worker [3]	25:22 25:25					
worker [3] 16:6 16:6 18:3 works [1] 32:5 worst [1] 18:7 wound [1] 8:9 write [1] 3:20 written [2] 3:18 6:24 -Y- Y [1] 38:9 year [4] 3:7 5:21 26:20 33:21 years [14] 2:20 5:23 5:24 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [1] 6:24 -Z-	worked [2]	6:18		1		
16:6 18:3		16.6				
works [1] 32:5 worst [1] 18:7 wound [1] 8:9 write [1] 3:20 written [2] 3:18 6:24 -Y- Y [1] 38:9 year [4] 3:7 5:21 26:20 33:21 years [14] 2:20 5:23 5:24 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [1] 6:24 -Z-	16:6 18:3	10.0				
worst [1] 18:7 wound [1] 8:9 write [1] 3:20 written [2] 3:18 6:24 -Y- Y [1] 38:9 year [4] 3:7 5:21 26:20 33:21 years [14] 2:20 5:23 5:24 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [1] 6:24 -Z-		32:5				
wound[i] 8:9 write [i] 3:20 written [i] 3:18 6:24 -Y- Y [i] 38:9 year [i] 3:7 5:21 26:20 33:21 years [i4] 2:20 5:23 5:24 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [i] 6:24 -Z-						
written [2] 3:18 6:24 -Y- Y [1] 38:9 year [4] 3:7 5:21 26:20 33:21 years [14] 2:20 5:23 5:24 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [1] 6:24 -Z-	wound [1]					
-Y- Y [1] 38:9 year [4] 3:7 5:21 26:20 33:21 years [14] 2:20 5:23 5:24 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [1] 6:24 -Z-	write [1] 3:20					
-Y- Y [1] 38:9 year [4] 3:7 5:21 26:20 33:21 years [14] 2:20 5:23 5:24 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [1] 6:24 -Z-	written [2]	3:18				
Y [1] 38:9 year [4] 3:7 5:21 26:20 33:21 years [14] 2:20 5:23 5:24 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [1] 6:24 -Z-	6:24]			
Y [1] 38:9 year [4] 3:7 5:21 26:20 33:21 years [14] 2:20 5:23 5:24 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [1] 6:24 -Z-	-V-			:		
year [4] 3:7 5:21 26:20 33:21 years [14] 2:20 5:23 5:24 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [1] 6:24 -Z-						
26:20 33:21 ycars [14] 2:20 5:23 5:24 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yct [1] 6:24 -Z-	1 [1] 38:9	5,21				
years [14] 2:20 5:23 5:24 9:3 9:7 11:6 16:7 16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [1] 6:24 -Z-	26:20 33:21	3.21			,	
16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [1] 6:24 -Z-	years [14]	2:20			·	
16:13 26:21 31:18 36:7 37:3 37:5 37:6 yet [1] 6:24 -Z-	5:23 5:24	9:3				
36:7 37:3 37:5 37:6 yet [1] 6:24	9:7 11:0	10:7 31:18				
37:6 yet [1] 6:24	36:7 37:3	37:5				
	37:6					
	yct [1] 6:24					
	77					
Z _[1] 38:9			[.			
	Z[1] 38:9				,	